



Spline Gauges Limited
Piccadilly
Tamworth
Staffordshire
B78 2ER

Direct dial: +447557238854
Email: Karl.Shaw@ukas.com
Date: 17 October 2025
Cust No. 5004

Dear Michael Southan,

Maintenance of Accreditation for:

Standard: ISO/IEC 17025:2017
Project Number: 307978-03-01
Project Name: 2025 - SU3 - Tamworth
Accr Exp Date: 31/01/2027

Following our recent visit, we are pleased to inform you that all improvement actions raised requiring evidence to be submitted to UKAS are now satisfactorily cleared and that your accreditation is maintained. Any outstanding invoices for clearance of improvement actions will follow.

Your current scope of accreditation is shown on your schedule which is available from our website www.ukas.com. Please contact your Customer Liaison Officer in the event of any difficulty in downloading the schedule.

Our next visit is planned for **August 2026**, and we will contact you nearer the time to make arrangements.

If you want to extend your scope in the future, please contact us to discuss your application and the timeframes that you need to obtain accreditation because the extension to scope process can often take several months to complete. You are reminded that you are required to inform UKAS of any changes that may affect your accreditation or compliance with the accreditation requirements.

Yours sincerely,

Karl Shaw
Assessment Manager

Certificate of Accreditation



Spline Gauges A trading name of Apex Tool Group (UK Operations) Ltd

Calibration Laboratory No. 0015

**Is accredited in accordance with International Standard ISO/IEC 17025:2017
– General Requirements for the competence of testing and calibration
laboratories.**

This accreditation demonstrates technical competence for a defined scope specified in the schedule to this certificate, and the operation of a management system (refer joint ISO-ILAC-IAF Communiqué dated April 2017). The schedule to this certificate is an essential accreditation document and from time to time may be revised and reissued.

The most recent issue of the schedule of accreditation, which bears the same accreditation number as this certificate, is available from www.ukas.com.

This accreditation is subject to continuing conformity with United Kingdom Accreditation Service requirements.

A handwritten signature in black ink, appearing to read 'Matt Gantley', is written over a horizontal line.

Matt Gantley, *Chief Executive Officer*
United Kingdom Accreditation Service

Initial Accreditation: 6 March 1969
Certificate Issued: 3 March 2020




Scan QR Code to
verify

Schedule of Accreditation

issued by

United Kingdom Accreditation Service

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

 <p>UKAS CALIBRATION</p> <p>0015</p> <p>Accredited to ISO/IEC 17025:2017</p>	<h3>Spline Gauges Limited</h3> <p>Issue No: 025 Issue date: 06 March 2024</p>	
	<p>Piccadilly Tamworth Staffordshire B78 2ER</p>	<p>Contact: Mr Michael Southan Tel: +44 (0)1827-872771 E-Mail: m.southan@splinegauges.com Website: www.splinegauges.com</p>
<p>Calibration performed at the above address only</p>		

Calibration and Measurement Capability (CMC)

Measured Quantity Instrument or Gauge	Range	Expanded Measurement Uncertainty ($k = 2$)	Remarks
RANGE IN MILLIMETRES AND UNCERTAINTY IN MICROMETRES UNLESS OTHERWISE STATED			
<p>INVOLUTE GEARS, GEAR ARTEFACTS, SPLINE GAUGES (see notes 1 and 2)</p> <p>External</p> <p>Profile Total deviation (F_α) Profile slope deviation ($f_{H\alpha}$) Profile form deviation (f_{fa})</p> <p>Helix (Alignment) Total deviation (F_β) Helix (alignment) slope deviation ($f_{H\beta}$) Helix (alignment) form deviation ($f_{f\beta}$)</p> <p>Single Pitch (f_p) Pitch Difference (f_u) Cumulative Pitch (F_p) Radial Runout of Tooth Space (F_r) Normal Circular Tooth Thickness (S_n) Dimension Over/Pins or Balls (M_{dr} or M_{dk})</p>	<p>Helix angle</p> <p>0° to 45°</p> <p>0.15 to 25 Module</p>	<p>1.4 1.3 1.4</p> <p>1.6 1.5 1.6</p> <p>1.8 1.8</p> <p>2.7 3.3</p> <p>1.6</p> <p>1.7 1.9 2.1 2.9</p>	<p>NOTES</p> <p>1. Gears of the following capacities may be calibrated: Maximum diameter 150 mm, Maximum length 100 mm, Max Weight 30 kg</p> <p>2. The uncertainties stated assume that journal diameters or reference surfaces have been used to define the measurement axis.</p> <p>CNC gear measuring machine.</p> <p>Horizontal measuring machine and reference setting standards.</p>



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Measured Quantity Instrument or Gauge	Range	Expanded Measurement Uncertainty ($k = 2$)	Remarks
RANGE IN MILLIMETRES AND UNCERTAINTY IN MICROMETRES UNLESS OTHERWISE STATED			
STRAIGHT SIDED SERRATION GAUGES (cont'd)			
Ring			
Serration Angle Dimension Across Flats 90° Only.		10 Minutes of Arc 1.6	CNC gear measuring machine or Contracer.
Single Pitch (f_p)		1.8	CNC gear measuring machine.
Pitch Difference (f_u)		1.8	
Cumulative Pitch (F_p)		2.7	
Dimension Between Pins or Balls (Mdr or Mdk)		20 to 100 Diameter	2.6
Straight Sided Internal Tooth Thickness		1.2	
GENERAL			
Bore Diameters	5 to 25 Diameter	1.0	Horizontal measuring machine and reference setting standards.
	25 to 50 Diameter	1.3	
	50 to 100 Diameter	1.9	
	100 to 175 Diameter	1.5	
Major Diameter (Even Teeth)	5 to 100 Diameter	1.1	
	100 to 175 Diameter	1.5	
	175 to 250 Diameter	1.9	
	250 to 300 Diameter	2.3	
Major Diameter (Odd Teeth)	5 to 100 Diameter	1.7	
	100 to 175 Diameter	1.9	
	175 to 250 Diameter	2.2	
	250 to 300 Diameter	2.4	
Minor Diameter (Even Teeth)	10 to 100 Diameter	1.1	
	100 to 200 Diameter	1.9	
Minor Diameter (Odd Teeth)	10 to 100 Diameter	1.7	
	100 to 200 Diameter	2.2	



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Measured Quantity Instrument or Gauge	Range	Expanded Measurement Uncertainty ($k = 2$)	Remarks
RANGE IN MILLIMETRES AND UNCERTAINTY IN MICROMETRES UNLESS OTHERWISE STATED			
GENERAL (cont'd)			NOTES (cont'd)
Chamfer		12.7	Con-tracer.
Fillet radius		12.7	Con-tracer.
Radial and axial runout		2.5	CNC gear measuring machine
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: $Q[a, b] = [a^2 + b^2]^{1/2}$