Certificate Of Calibration

Issued By Rhopoint Metrology Limited

Date of issue: 21 October 2024 **Certificate Number 1076836 Rev 1**

ilac-MRA UKAS CALIBRATION 0720

RHOPOINT METROLOGY

Rhopoint Metrology Limited
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Approved Signatory

Cliff Monnington

Certificate Issued to:
WISEMAN THREADING TOOLS LIMITED
UNIT 11 PADGETS LANE
SOUTH MOONS MOAT
REDDITCH
WORCESTERSHIRE
B98 0RA

On Behalf Of:
RENOVO TOOL CO LTD

Order Number: 9317 **Date Received:** 16 October 2024

Description: M20 X 2.5 6H D/E THREAD PLUG GAUGE

Basis of Test:	BS 3643 : 2 : 2007	& BS 919 : 3 : 2007		**Procedure:**	LPM 3 - 8
Calibration Date:	21 October 2024	**Temperature**	20 ±1°C	**Issue:**	4.1
		Relative Humidity	<55 %rh	**Modified:**	12 May 2022
Calibration Performed at:		Rhopoint Metrology Limited, Birmingham, B33 0TD.			
Decision Rule Used For Status:		Simple Acceptance			

Method:

This gauge was allowed to stabilise in a controlled environment for a period of time exceeding 24 hours.

It was then calibrated using a universal length measuring machine, thread measuring cylinders & setting standards in accordance with the laboratory procedure detailed.
Conformity statements contained in this certificate have been agreed with the customer & are based on simple acceptance as stated in JCGM 106:2012 section 8.2 where the acceptance limit (AL) is equal to the tolerance limit (TL) provided that the tolerance uncertainty ratio (TUR) is equal to or greater than 1.0

Calibration Notes

Standards Used To Calibrate Equipment

Ref	Serial	I.D.	Description	Due Date
00000003	2718/1	00000003	THREAD MEASURING WIRES	04/01/2025
00000029	2718	29	UNIVERSAL LENGTH MEASURING MACHINE (SIP 305M)	03/04/2025
00000157	P9465	157	METRIC PLAIN CYLINDRICAL STANDARD SET	23/05/2025
00000169	MM231194DH	169	M88 STEEL GAUGE BLOCK SET - GRADE 1	07/02/2025

The reported expanded uncertainty is based on a standard uncertainty multiplied by a coverage factor k=2, providing a level of confidence of approximately 95%. The uncertainty evaluation has been carried out in accordance with UKAS requirements.

This certificate is issued in accordance with the laboratory accreditation requirements of the United Kingdom Accreditation Service. It provides traceability of measurement to the SI system of units and/or to the units of measurement realised at the National Physical Laboratory or other recognised national metrology institutes.
This certificate may not be reproduced other than in full, except with the prior written approval of the issuing laboratory.

Calibrated By *CLIFF MONNINGTON*

Certificate Of Calibration

UKAS Accredited Calibration Laboratory No. 0720

Serial Number: **Customer I.D.:**

Go	Nominal Size	Lower Tolerance Limit	Upper Tolerance Limit	As Found	Status	UOM	Unit	TUR >1:1
Pitch Diameter (Front)	18.3760	18.3850	18.3990	18.3918		0.0030	mm	✓
Pitch Diameter (Middle)	18.3760	18.3850	18.3990	18.3917		0.0030	mm	✓
Pitch Diameter (Back)	18.3760	18.3850	18.3990	18.3914		0.0030	mm	✓

NotGo	Nominal Size	Lower Tolerance Limit	Upper Tolerance Limit	As Found	Status	UOM	Unit	TUR >1:1
Pitch Diameter (Front)	18.6000	18.6000	18.6140	18.6072		0.0030	mm	✓
Pitch Diameter (Back)	18.6000	18.6000	18.6140	18.6052		0.0030	mm	✓

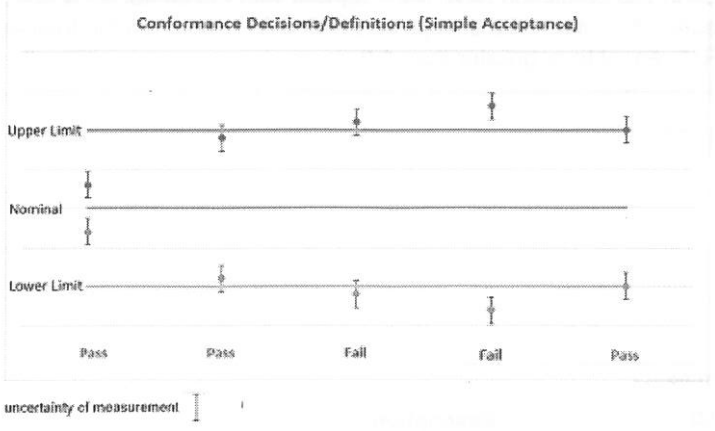
UOM = Uncertainty of measurement

TUR = Tolerance uncertainty ratio

Compliance contained in this certificate is reported in the following way

Decision Rule : Simple Acceptance

Status	Result	Explanation
	Pass	Measured value falls within specified limits
F	**Fail**	Measured value falls outside specified limits.
U	**None**	Unable to determine compliance or non-compliance, TUR <1:1



Results contained in this calibration certificate relate only to the items calibrated & the parameters tested

UKAS is one of the signatories to the Multilateral Agreement of the European co-operation for Accreditation (EA) for the mutual recognition of calibration certificates issued by accredited laboratories.

******* END *******

Calibrated By: *CLIFF MONNINGTON*

The reported expanded uncertainty is based on a standard uncertainty multiplied by a coverage factor k=2, providing a level of confidence of approximately 95%. The uncertainty evaluation has been carried out in accordance with UKAS requirements.