

# CERTIFICATE OF CALIBRATION

ISSUED BY: LAMBDA CALIBRATION LTD

DATE OF ISSUE: 12<sup>th</sup> July 2023

CERTIFICATE No: 788211



0495



Lambda  
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APPROVED SIGNATORY

  
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**Customer:** PPT Group UK Ltd, Halifax, HX3 6EP  
**Item No:** 3022782 JH - 400  
**Description:** A (New) Mitutoyo (167-116) External Micrometer Setting Piece (Flat Ended)  
**Date of Cal:** 11/7/2023  
**Basis & Method:** Lambda Procedure No: C.I.M-1A Pt.10 Based on BS 870 (latest issue)  
The setting piece was calibrated against standard units of length (gauge blocks / length bars).  
**Equipment Used:** LMB-74-07, LMS-11-20, LMS-5-13  
**Temperature:** 20°C ± 1°C

## Visual Examination/Suitability for Calibration

Instrument Condition	Satisfactory
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## Measured Results (Deviation from Nominal Size)

Nominal Size	Tolerance	Deviation
400mm	±0.005mm	-0.0013mm

## Measured Results (Uniformity of Setting Disk or Parallelism of Flat Ended Setting Rod)

Nominal Size	Tolerance	Uniformity or Parallelism
400mm	0.003mm	0.0009mm

**Results Summary:** The reported results fall within the specified tolerances.

**Uncertainty of Measurement:** Length: ±0.0010 mm + (0.005 mm x L in M)  
Parallelism: ±0.0002 mm + (0.003 mm x L in M)

The reported expanded uncertainty is based on a standard uncertainty multiplied by a coverage factor  $k=2$ , providing a coverage probability of approximately 95%. The uncertainty evaluation has been carried out in accordance with UKAS requirements. Unless otherwise stated: [1] The 'Compliance Statement' is based on 'simple acceptance' (result vs tolerance) with the relevant calibration uncertainty being no greater than the tolerance. [2] Reported activities were carried out at the address detailed in the header. [3] The results relate only to the items calibrated. 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 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.