

# CERTIFICATE OF CALIBRATION

ISSUED BY MP CALIBRATION SERVICES

DATE OF ISSUE: 05 October 2023

CERTIFICATE NUMBER: 391914



0228

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APPROVED SIGNATORY

NAME: T Rutter

SIGNED:

A handwritten signature in black ink, appearing to read 'T Rutter'.

SUBMITTED BY:

DATE OF CALIBRATION: 05/10/2023

CUSTOMER: PPT Group UK Ltd (Slinfold) t/a Mecmesin Ltd Slinfold, Stane Lane, West Sussex, Horsham, RH13 0SZ

DESCRIPTION: 150mm Digital Caliper

MANUFACTURER:

SERIAL NO: TM0416

BASIS OF TEST: BS 887 : 2008

TEMPERATURE: 20 °C ± 2 °C

RESULTS  
OF TEST:

The accuracy of the caliper was checked using the laboratory's master gauge blocks, length bars and comparator, with the scale error checked against external, internal and depth measurements. The measured results obtained are detailed below.

<u>FEATURE EXAMINED</u>	<u>TOLERANCE</u>	<u>RESULTS</u>
Flatness of external measuring faces	0.005 mm	0.004 mm
Parallelism of external measuring faces	0.008 mm	0.005 mm
Parallelism of internal measuring faces	0.010 mm	0.002 mm
Maximum scale error	±0.001 in/±0.020 mm	+0.0005 in/+0.010 mm
Repeatability error		Zero
Uncertainty of measurement ±0.010 mm + (0.030 mm x length in metres)		

Note \* indicates any out of specification features

End of report

This report relates only to the item with the serial number shown above

Decision rule: Unless otherwise requested MP Calibration Services Ltd shall issue a conformity statement based on a binary decision rule (ie. simple acceptance of pass/fail) where the acceptance zone is equal to the tolerance zone stated in the standard used as the basis of test, and a measurement uncertainty which is not greater than the tolerance. Where measurement uncertainty is greater than the tolerance zone it is not possible to state conformity.

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.

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