

MEASUREMENT REPORT

My Metrology Laboratory

Report No:

MR-2026-0001

Status: SIGNED

Issued: 2026/05/27

REPORT NUMBER
MR-2026-0001

INSPECTION JOB
INS-0001

OVERALL RESULT
PASS

PART / COMPONENT

PART NUMBER
PN-1024

DRAWING REF
DRW-1024

REVISION
B

DESCRIPTION
Hydraulic Cylinder Rod

MATERIAL
EN24T Steel

CUSTOMER
ABC Manufacturing (Pty) Ltd

BATCH SIZE
50

SAMPLE SIZE
5

MEASURING EQUIPMENT (TRACEABILITY)

INSTRUMENT
MIC-001

DESCRIPTION
Outside Micrometer 0-25mm

SERIAL NUMBER
MT56789012

ENVIRONMENTAL CONDITIONS

TEMPERATURE
21.5 °C

RELATIVE HUMIDITY
50 %RH

INSPECTION DATE
2026-05-20

INSPECTION RESULTS

Feature

Nominal

LSL

USL

Mean

Std Dev

Cpk

							Result
Rod Diameter	24.0000	23.9870	24.0130	24.0010	0.0016	2.53	PASS
Overall Length	150.0000	149.9000	150.1000	150.0160	0.0114	2.46	PASS
Surface Runout	0.0000	—	0.0200	0.0100	0.0016	2.11	PASS

OVERALL CONFORMANCE: PASS

AUTHORISED BY

Lab Administrator

My Metrology Laboratory

Date: 2026/05/27

Advanced Electronic Signature Applied

Verification: 03919098c557795d9ba66bd06f797ab5a78fe7616ce73b4c

Conformance determined per feature against drawing tolerances. Where measurement uncertainty is supplied, decisions follow binary acceptance with shared risk (ILAC-G8); features whose uncertainty band crosses a limit are reported as CONDITIONAL. Cpk is the process-capability index from repeat measurements.