

Customer: ROMAN MELNYK TEST ACCOUNT
35 VANTAGE POINT DRIVE
ROCHESTER, NY 14624

PO Number: SAMPLE



Certificate/SO Number: 1-SAMPLE1-1-1 Revision 0

Manufacturer: Mitutoyo
Model Number: 293-185
Description: Outside Micrometer
Serial Number: SAMPLE
ID: NONE

As-Found: In Tolerance
As-Left: In Tolerance

Calibration Date: Oct 04, 2017
Due Date: Oct 04, 2018

Calibrated To: Manufacturer Specification
Calibration Procedure: 1-AC27434-1

Transcat Calibration Laboratories have been audited and found in compliance with ISO/IEC 17025:2005. Accredited calibrations performed within the Lab's Scope of Accreditation are indicated by the presence of the Accrediting Body's Logo and Certificate Number on this Certificate of Calibration. Any measurements on an accredited calibration not covered by that Lab's Scope of Accreditation are listed in the notes section of the certificate. This report must not be used to claim product certification, approval, or endorsement by NVLAP, NIST, SCC, NRC, CLAS, ANAB or any agency of the Federal Government. NVLAP, NIST, SCC, NRC, CLAS or ANAB do not guarantee the accuracy of an individual calibration by accredited laboratories.

Transcat calibrations, as applicable, are performed in compliance with the requirements of the Transcat Quality Manual Revision 1, ISO 9001:2008, ANSI/NCSL Z540.1-1994 (R2002), and ISO 10012:2003. When specified contractually, the requirements of ISO TS16949:2009, 10CFR21, 10CFR50 App. B and ASME NQA-1:2012 are also covered. Complete records of work performed are maintained by Transcat and are available for inspection. Laboratory standards used in the performance of this calibration are shown on the Supplemental Report.

Transcat documents the traceability of measurements to the SI units through the National Institute of Standards and Technology (NIST), or the National Research Council of Canada (NRC), or other recognized national measurement institutes (NMI) that are signatories to the CIPM Mutual Recognition Arrangement, or accepted fundamental and/or natural physical constants, or by the use of specified methods, consensus standards or ratio type measurements. Documentation supporting traceability information is available for review at a Transcat facility. The measured quantity and the measurement uncertainty are required for further dissemination of traceability.

Uncertainties are reported with a coverage factor $k=2$, providing a level of confidence of approximately 95%. All calibrations have been performed using processes having a TUR of 4:1 or better (3:1 for mass calibrations), unless otherwise noted on the Supplemental Report. The Test Uncertainty Ratio (TUR) is calculated in accordance with NCSL International RP-18. For mass calibrations: Conventional mass referenced to 8.0 g/cm³.

The results in this report relate only to the item calibrated or tested, and the determination of in or out of tolerance is specific to the model/serial no. referenced above based on the tolerances shown on the supplemental report; these tolerances are either the original equipment manufacturer's (OEM's) warranted specifications or the client's requested specifications. Any number of factors can cause a unit to drift out of tolerance at any time following its calibration. Limitations on the uses of this instrument are detailed in the OEM's operating instructions. This certificate may not be reproduced except in full, without the written approval of Transcat. Additional information, if applicable may be included on separate report(s).

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As Found/As Left Data

Description	Setpoints	Accuracy	Low Limit	High Limit	As Found / As Left	O O T	Cal Process Uncertainty (k=2; ±)	Measurement Uncertainty (k=2; ±)	Units	TUR
Anvil and Spindle Flatness										
Anvil Flatness within 12 µin			P	P	P					
Spindle Flatness within 12 µin			P	P	P					
Length Measure										
Linearity	0.21000in	±(0.00005 in)	0.20995	0.21005	0.21000 in		1.0e-005	1.2e-005	in	5.0 : 1
	0.42000in	±(0.00005 in)	0.41995	0.42005	0.42000 in		1.0e-005	1.2e-005	in	5.0 : 1
	0.60500in	±(0.00005 in)	0.60495	0.60505	0.60500 in		1.0e-005	1.2e-005	in	5.0 : 1
	0.81500in	±(0.00005 in)	0.81495	0.81505	0.81500 in		1.0e-005	1.2e-005	in	5.0 : 1
	1.00000in	±(0.00005 in)	0.99995	1.00005	1.00000 in		1.0e-005	1.2e-005	in	5.0 : 1
Function Check										
Inch to mm conversion			P	P	P					

Traceable Standards

Asset	Manufacturer	Model Number	Description	Cal Date	Due Date	Traceability Number	Use
101131	Regal Beloit	SM1-112	Gage Block Set, 112 pcs.	10-Apr-17	30-Apr-18	15-&101131-2-1	AF/AL

The use of the standard is defined as: AF - used for as-found readings, AL - used for as-left readings.

Environmental Data

Temperature	Relative Humidity	Temp / RH Asset
67.98°F /19.99°C	40.80%	3026

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Calibrated At:
35 Vantage Point Dr
Rochester, NY 14624

Facility Responsible:
35 Vantage Point Dr
Rochester, NY 14624
800-828-1470

Calibrated By:
 **Electronically Signed By:**
Jeremy Sims

Reviewed By:
 **Electronically Signed By:**
Phil Mistretta for

Jeremy Sims Oct 04, 2017
Calibration Technician 10:30:35 -04:00

Frederick Tank Oct 04, 2017
Lab Manager 10:08:10 -05:00

Unit Barcode: 
0602A000031

Date Received: October 04, 2017
Service Level: R9