



CERTIFICATE OF ACCREDITATION

ANSI National Accreditation Board
11617 Coldwater Road, Fort Wayne, IN 46845 USA

This is to certify that

Transcat – Ft. Wayne
3020 Congressional Parkway, Suite G
Fort Wayne, IN 46808-4422

has been assessed by ANAB and meets the requirements of international standard

ISO/IEC 17025:2017

and national standard

ANSI/NCSL Z540-1-1994 (R2002)

while demonstrating technical competence in the field of

CALIBRATION & DIMENSIONAL MEASUREMENT

Refer to the accompanying Scope of Accreditation for information regarding the types of activities to which this accreditation applies

ACT-2489.14
Certificate Number


ANAB Approval

Certificate Valid Through: 09/07/2021
Version No. 003 Issued: 03/27/2019



This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer to joint ISO-ILAC-IAF Communiqué dated April 2017).



**SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017 AND
ANSI/NCSL Z540-1-1994 (R2002)**

Transcat – Ft. Wayne
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CALIBRATION

Valid to: **September 7, 2021**

Certificate Number: **ACT-2489.14**

Length – Dimensional Metrology

Parameter/Equipment	Range	Expanded Uncertainty of Measurement (+/-)	Reference Standard, Method, and/or Equipment
Angle - Measure Non-contact Contact	0° to 360° 0° to 360°	0.013° 0.011°	Vision System CMM
Micrometers & Calipers – Outside, Inside, Depth, Step	0.01 in to 0.04 in 0.4 in to 1 in 1 in to 4 in 4 in to 15 in 15 in to 40 in	12 µin (13 + 1L) µin (10 + 3.5L) µin (12 + 4L) µin (16 + 4L) µin	Comparison to Gage Blocks
Anvil Flatness	0 in to 1 in Diameter	4.6 µin	Optical Flats
Anvil Parallelism	0 in to 1 in Diameter	8.3 µin	Optical Parallel
Bore Gages	0.125 in to 0.25 in 0.25 in to 1 in 1 in to 6 in	37 µin 39 µin (33 + 7L) µin	Characterized Rings
Digital, Dial, Drop and Test Indicators	0 in to 1 in 1 in to 6 in	(10 + 2L) µin (6 + 5L) µin	Comparison to Gage Blocks
Single Axis – Outside	0 in to 1 in 1 in to 6 in	(6 + L) µin (4.3 + 3.7L) µin	ULM
Thread Wire Sets	2 TPI to 120 TPI 0.00833 to 0.5 in	13 µin	ULM
Sieves Openings Wire Diameters	0.0025 in to 4 in 0.0018 in to 0.315 in	160 µin 160 µin	Vision System ASTM E11 / ISO 3310

Length – Dimensional Metrology

Parameter/Equipment	Range	Expanded Uncertainty of Measurement (+/-)	Reference Standard, Method, and/or Equipment
Plug Gages – Outer Diameter	0 in to 1 in 1 in to 3 in 3 in to 5 in	15 μ in (15 + 2L) μ in (11 + 3L) μ in	ULM
Pin Gages – Outer Diameter Non-contact	0.004 in to 1 in	33 μ in	Laser Micrometer
Ring Gage – Inner Diameter	0.125 in to 0.25 in 0.25 in to 1 in 1 in to 6 in	17 μ in (17 + L) μ in (17 + 2.5L) μ in	ULM
Laser Micrometers	0 in to 1 in	15 μ in	Master Pins
Flatness	0 in to 4 in Diameter	4.6 μ in	Optical Flat w/ monochromatic Light
Roughness Testers	Ra 12.2 Ra 116.2	4.3 μ in 4.5 μ in	Precision Reference Standard
Thread Plug Gages Pitch Diameter 60° Thread	0 in to 3 in 3 in to 5 in	80 μ in 83 μ in	ULM with thread wires
Major Diameter	0 in to 1 in 1 in to 6 in	(6 + L) μ in (4.3 + 3.7L) μ in	ULM
Thread Ring Gage Inner Pitch Diameter	0 in to 3 in 3 in to 5 in	80 μ in 83 μ in	Master Plug Uncertainty

DIMENSIONAL MEASUREMENT
1 Dimensional

Parameter / Equipment	Range	Expanded Uncertainty of Measurement (+/-)	Reference Standard, Method and/or Equipment
Non-contact X-Y Axis	0 in to 4 in 4 in to 8 in 8 in to 12 in 12 in to 16 in 16 in to 20 in 20 in to 24 in	160 μ in 180 μ in 200 μ in 230 μ in 250 μ in 280 μ in	Vision System



3 Dimensional

Parameter / Equipment	Range	Expanded Uncertainty of Measurement (+/-)	Reference Standard, Method and/or Equipment
Diagonal (3D) Volumetric	1 in x 1 in x 1 in 3 in x 3 in x 3 in 6 in x 6 in x 6 in 12 in x 12 in x 12 in 24 in x 24 in x 24 in 27 in x 40 in x 27 in	40 μ in 270 μ in 280 μ in 290 μ in 310 μ in 340 μ in	CMM

Calibration and Measurement Capability (CMC) is expressed in terms of the measurement parameter, measurement range, expanded uncertainty of measurement and reference standard, method, and/or equipment. The expanded uncertainty of measurement is expressed as the standard uncertainty of the measurement multiplied by a coverage factor of 2 ($k=2$), corresponding to a confidence level of approximately 95%.

Notes:

1. On-site calibration service is available for this parameter, since on-site conditions are typically more variable than those in the laboratory, larger measurement uncertainties are expected on-site than what is reported on the accredited scope.
2. This scope is formatted as part of a single document including Certificate of Accreditation No. ACT-2489.14.



Vice President

