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

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. 004 Issued: 02/07/2020

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).

ANSI National Accreditation Board

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

Transcat – Ft. Wayne

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Larry Desormeaux
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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 (+/-) [2]	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 + 1*L*) µin (10 + 3.5*L*) µin (12 + 4*L*) µin (16 + 4*L*) 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 + 7*L*) µin	Characterized Rings
Digital, Dial, Drop and Test Indicators	0 in to 1 in 1 in to 6 in	(10 + 2*L*) µin (6 + 5*L*) µin	Comparison to Gage Blocks
Single Axis – Outside	0 in to 1 in 1 in to 6 in	(6 + *L*) µin (4.3 + 3.7*L*) 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 (+/-) [2]	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 µin (15 + 2*L*) µin (11 + 3*L*) µin	ULM
Pin Gages – Outer Diameter Non-contact	0.004 in to 1 in	33 µin	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 µin (17 + *L*) µin (17 + 2.5*L*) µin	ULM
Laser Micrometers	0 in to 1 in	15 µin	Master Pins
Flatness	0 in to 4 in Diameter	4.6 µin	Optical Flat w/ monochromatic Light
Roughness Testers	Ra 12.2 Ra 116.2	4.3 µin 4.5 µin	Precision Reference Standard
Thread Plug Gages Pitch Diameter 60° Thread Major Diameter	 0 in to 3 in 3 in to 5 in 0 in to 1 in 1 in to 6 in	 80 µin 83 µin (6 + *L*) µin (4.3 + 3.7*L*) µin	 ULM with thread wires ULM
Thread Ring Gage Inner Pitch Diameter	0 in to 3 in 3 in to 5 in	80 µin 83 µin	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 µin 180 µin 200 µin 230 µin 250 µin 280 µin	Vison 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 µin 270 µin 280µin 290 µin 310 µin 340 µin	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. L = Length in inches.
3. This scope is formatted as part of a single document including Certificate of Accreditation No. ACT-2489.14.

Vice President