



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

NEL PRETECH CORPORATION  
 8420 183<sup>rd</sup> Place  
 Tinley Park, IL 60487  
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MECHANICAL

Valid To: May 31, 2026

Certificate Number: 2140.01

In recognition of the successful completion of the A2LA evaluation process, accreditation is granted to this laboratory to perform the following dimensional tests<sup>1,5</sup>:

I. Dimensional Testing

Parameter/Equipment	Range	CMC <sup>2, 4, 6</sup> (±)	Comments
Length <sup>3</sup> (1D) – Measure	Up to 25 mm	2.7 µm	Micrometer
	Up to 150 mm	28 µm	Caliper
Radius <sup>3</sup> – Measure	(1 to 15) mm	0.16 mm	Radius gage
	(1/64 to 0.5) in	0.01 in	
Volume <sup>3</sup> – (X, Y, Z) Measure	(700 × 270 × 270) mm	(3.7 + 13L) µm	Zeiss Metrotom 800 CT
	(1150 × 300 × 600) mm	(5.6 + 25L) µm	Zeiss Metrotom 1500 CT
	(100 × 70 × 60) mm	16 µm	ATOS Q255, MV 100
	(350 × 260 × 260) mm	37 µm	ATOS Q255, MV350
	(700 × 1000 × 700) mm	(9.0 + 0.8L) µm	B&S Global Image CMM
	(900 x 1500 x 900) mm	(21 + 0.6L) µm	B&S Xcel CMM
	(700 x 1000 x 500) mm	(15 + 0.6L) µm	B&S MicroXcel CMM
	(400 x 400 x 300) mm	(2.5 + 2.5L) µm	Mycrona Altera S/L CMM

Parameter/Equipment	Range	CMC <sup>2, 4, 6</sup> ( $\pm$ )	Comments
Diameter <sup>3</sup> – Measure	(0.011 to 0.5) in	0.000 65 in	Pin gages
Area <sup>3</sup> – (X, Y) Measure	(300 x200) mm	(6.8 + 3.0L) $\mu$ m	Starrett AVR300 Optical CMM
	(300 $\times$ 300) mm	(14 + 0.3L) $\mu$ m	RAM optical CMM
Angle <sup>3</sup> – Measure	(0 to 360) $^{\circ}$	(0.0002 $^{\circ}$ /A) + 0.000 72 $^{\circ}$	Zeiss Metrotom 800 CT
		(0.000 32 $^{\circ}$ /A) + 0.0014 $^{\circ}$	Zeiss Metrotom 1500 CT
		(0.000 92 $^{\circ}$ /A) + 0.0 $^{\circ}$	ATOS Q255, MV100
		(0.0021 $^{\circ}$ /A) + 0.0 $^{\circ}$	ATOS Q255, MV350
		(0.000 39 $^{\circ}$ /A) + 0.000 17 $^{\circ}$	Starrett AVR300 optical CMM
		(0.0008 $^{\circ}$ /A) + 0.000 17 $^{\circ}$	RAM optical CMM
		(0.000 52 $^{\circ}$ /A) + 0.000 046 $^{\circ}$	B&S Global Image CMM
		(0.0012 $^{\circ}$ /A) + 0.000 034 $^{\circ}$	B&S Xcel CMM
Fixture Gages <sup>3</sup>	(700 $\times$ 1000 $\times$ 700) mm	(9.0 + 0.8L) $\mu$ m	B&S Global CMM
	(900 $\times$ 1500 $\times$ 900) mm	(21 + 0.6L) $\mu$ m	B&S Xcel CMM
	(700 $\times$ 1000 $\times$ 500) mm	(15 + 0.6L) $\mu$ m	B&S MicroXcel CMM

Parameter/Equipment	Range	CMC <sup>2, 4, 6</sup> ( $\pm$ )	Comments
Surface Finish of Parts <sup>3</sup> – Measure	Ra (5 to 200) $\mu\text{in}$	$(0.4 + 0.06S) \mu\text{in}$	Mahr MarSurf M400
	Rq (5 to 200) $\mu\text{in}$	$(0.4 + 0.06S) \mu\text{in}$	
	Rz (40 to 1200) $\mu\text{in}$	$(4.3 + 0.06S) \mu\text{in}$	

<sup>1</sup> This laboratory offers commercial dimensional testing.

<sup>2</sup> Calibration and Measurement Capability Uncertainty (CMC) is the smallest uncertainty of measurement that a laboratory can achieve within its scope of accreditation when performing more or less routine calibrations of nearly ideal measurement standards or nearly ideal measuring equipment. CMCs represent expanded uncertainties expressed at approximately the 95 % level of confidence, usually using a coverage factor of  $k = 2$ . The actual measurement uncertainty of a specific calibration performed by the laboratory may be greater than the CMC due to the behavior of the customer's device and to influences from the circumstances of the specific calibration.

<sup>3</sup> This test is not equivalent to that of a calibration.

<sup>4</sup> In the statement of CMC,  $A$  is the numerical value of the shortest distance of the leg defining the angle in meters,  $S$  is the surface finish in the parameter in question in  $\mu\text{in}$ , and  $L$  is the measured length in meters.

<sup>5</sup> This scope meets A2LA's *P112 Flexible Scope Policy*.

<sup>6</sup> The type of instrument or material being tested is defined by the parameter. This indicates the laboratory is capable of testing instruments that measure or generate the values in the ranges indicated for the listed measurement parameter.



# Accredited Laboratory

A2LA has accredited

## NEL PRETECH CORPORATION

*Tinley Park, IL*

for technical competence in the field of

### Mechanical Testing

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017 *General requirements for the competence of testing and calibration laboratories*. This laboratory also meets the requirements of any additional program requirements in the Mechanical field. 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).



Presented this 6<sup>th</sup> day of March 2024.

A blue ink signature of Mr. Trace McInturff, written over a horizontal line.

Mr. Trace McInturff, Vice President, Accreditation Services  
For the Accreditation Council  
Certificate Number 2140.01  
Valid to May 31, 2026  
Revised March 25, 2026

*For the types of tests to which this accreditation applies, please refer to the laboratory's Mechanical Scope of Accreditation.*