PERRY JOHNSON LABORATORY ACCREDITATION, INC.

Certificate of Accreditation

Perry Johnson Laboratory Accreditation, Inc. has assessed the Laboratory of:

Haven Metrology Service

13694 172nd Avenue, Grand Haven, MI 49417

(Hereinafter called the Organization) and hereby declares that Organization 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
(as outlined by the joint ISO-ILAC-IAF Communiqué dated Insert April 2017):

Dimensional Inspection

(As detailed in the supplement)

Accreditation claims for such testing and/or calibration services shall only be made from addresses referenced within this certificate. This Accreditation is granted subject to the system rules governing the Accreditation referred to above, and the Organization hereby covenants with the Accreditation body's duty to observe and comply with the said rules.

For PJLA:

Tracy Szerszen
President

Perry Johnson Laboratory Accreditation, Inc. (PJLA)
755 W. Big Beaver, Suite 1325
Troy, Michigan 48084

Initial Accreditation Date:	*Issue Date:*	*Expiration Date:*
June 27, 2010	September 10, 2024	October 31, 2026

Accreditation No.:	*Certificate No.:*
67643	L24-694

The validity of this certificate is maintained through ongoing assessments based on a continuous accreditation cycle. The validity of this certificate should be confirmed through the PJLA website: www.pjlabs.com

Certificate of Accreditation: Supplement

Haven Metrology Service

13694 172nd Avenue, Grand Haven, MI 49417
Contact Name: Chris Radosa Phone: 616-607-8095

Accreditation is granted to the facility to perform the following testing:

FLEX CODE	FIELD OF TEST	ITEMS, MATERIALS, OR PRODUCTS TESTED	COMPONENT, CHARACTERISTIC, PARAMETER TESTED	SPECIFICATION OR STANDARD METHOD	TECHNOLOGY OR TECHNIQUE USED
F1, F2	Dimensional inspection [FO]	Manufactured Products and Components	2 Dimensional and 3 Dimensional Features for Size, Location, and Orientation	ANSI Y14.5-M Customer Supplied Dimensional Information	Contact Coordinate Measurement Systems Up to 1 500 mm by 2 800 mm by 1 400 mm or R=1 800 mm D.L. = 0.002 5 mm (0.000 1 in) Articulated Arm Faro Quantum S Radius 1 800 mm D.L= (40.99+ 0.045 L) µm Procedure GPG 41
F1, F2	Dimensional inspection [F]			ANSI Y14.5-M Customer Supplied Dimensional Information	Optical Coordinate Measurement Systems Up to 1 500 mm by 600 mm by 300 mm or R=1 800 mm (Structured Light/Laser/Computed Tomography/Conventional Optics) D.L. = 0.002 5 mm (0.000 1 in) Procedure GPG 41
F1, F2			2 Dimensional Features for Size using Hand Gaging Tools	ANSI Y14.5-M Customer Supplied Dimensional Information	Hand Gaging Tools (Calipers, Micrometers, Height Gage) Up to 254 mm D.L. = 0.002 5 mm (0.000 1 in) Procedure GPG40 and HMS312
F1, F2				ANSI Y14.5-M Customer Supplied Dimensional Information	Profilometer (Surface Texture Tester) Up to 0.036 in D.L. = 0.000 1 in Procedure HMS331

1. The presence of a superscript F means that the laboratory performs testing of the indicated parameter at its fixed location.

2. The presence of a superscript O means that the laboratory performs testing of the indicated parameter onsite at customer locations.

Certificate of Accreditation: Supplement

Haven Metrology Service
13694 172nd Avenue, Grand Haven, MI 49417
Contact Name: Chris Radosa Phone: 616-607-8095

Accreditation is granted to the facility to perform the following testing:

3. Flex Code:
   F0-Fixed scope item. No deviations allowed to the line item as identified, except for updating to the most recent version of an accredited standard method after verification
   F1-Laboratory has the capability to test a new item, material, matrix, or product similar in composition to item, material, matrix, or product identified on the scope
   F2-Laboratory has the capability to introduce the newest revision of an accredited authoritative standard method (with no modifications) identified on the scope
   F3-Laboratory has the capability to introduce a parameter/component/analyte to an accredited test method identified on the scope
   F4-Laboratory has the capability to introduce a new revision of an accredited non-standard method using the same technology or technique identified on the scope
   F5-Laboratory has the capability to introduce a validated method that is equivalent to an accredited method (using same technology or technique) identified on the scope