

PERRY JOHNSON LABORATORY ACCREDITATION, INC.

Certificate of Accreditation

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

C. & T. Tool & Machine Inc. (CMM Division) 757 O'Brien Drive, Unit 2, Peterborough, ON K9J 6X7

(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 April 2017):

> **Dimensional Calibration** (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:
November 12, 2005	March 04	4, 2023	March 04, 2025
Accreditation	n No.:	Certific	ate No.:
59347		L23	-182

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: <u>www.pjlabs.com</u>



Certificate of Accreditation: Supplement

C. & T. Tool & Machine Inc. (CMM Division) 757 O'Brien Drive, Unit 2, Peterborough, ON K9J 6X7 Contact Name: Brian McDonnell Phone: 705-742-1591

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

Dimensional			
MEASURED INSTRUMENT,	RANGE	CALIBRATION AND	CALIBRATION
QUANTITY OR GAUGE	(AND SPECIFICATION	MEASUREMENT	EQUIPMENT
	WHERE APPROPRIATE)	CAPABILITY EXPRESSED	AND REFERENCE
		AS AN UNCERTAINTY (±)	STANDARDS USED
Checking and Holding	X = 900 mm	$(3.265 + 5.67L) \mu m$	Mitutoyo Crysta APEX C
Fixtures ^F	Y = 1 600 mm		9166 CMM with MICAT
	Z = 600 mm		Mcosmos software
			ANSI Y 14.5

- 1. The CMC (Calibration and Measurement Capability) stated for calibrations included on this scope of accreditation represents the smallest measurement uncertainty attainable by the laboratory when performing a more or less routine calibration of a nearly ideal device under nearly ideal conditions. It is typically expressed at a confidence level of 95 % using a coverage factor k (usually equal to 2). The actual measurement uncertainty associated with a specific calibration performed by the laboratory will typically be larger than the CMC for the same calibration since capability and performance of the device being calibrated and the conditions related to the calibration may reasonably be expected to deviate from ideal to some degree.
- 2. The laboratories range of calibration capability for all disciplines for which they are accredited is the interval from the smallest calibrated standard to the largest calibrated standard used in performing the calibration. The low end of this range must be an attainable value for which the laboratory has or has access to the standard referenced. Verification of an indicated value of zero in the absence of a standard is common practice in the procedure for many calibrations but by its definition, it does not constitute calibration of zero capacity.
- 3. The presence of a superscript F means that the laboratory performs calibration of the indicated parameter at its fixed location. Example: Outside Micrometer ^F would mean that the laboratory performs this calibration at its fixed location.
- 4. The term L represents the length in inches or millimeters as appropriate to the uncertainty statement.