CERTIFICATE OF ACCREDITATION

ANSI-ASQ National Accreditation Board

500 Montgomery Street, Suite 625, Alexandria, VA 22314, 877-344-3044

This is to certify that

Kent Machine, Inc.
8677 South State Road 9
Pendleton, IN 46064

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

ISO/IEC 17025:2005

while demonstrating technical competence in the fields of

Dimensional Measurement and Calibration

Refer to the accompanying Scope of Accreditation for information regarding the types of calibrations and/or tests to which this accreditation applies.

L2164
Certificate Number

ANAB Approval

Certificate Valid: 08/07/2018-09/19/2019
Version No. 002 Issued: 08/07/2018

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005. 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-ASQ National Accreditation Board

SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005

Kent Machine, Inc.
8677 South State Road 9
Pendleton, IN 46064
Jeff Baker
765-778-7777

CALIBRATION & DIMENSIONAL MEASUREMENT

Valid to: **September 19, 2019** Certificate Number: **L2164**

Length – Artifacts and Standards 1D

Calibration Parameter/Equipment	Range	Expanded Uncertainty of Measurement (+/-) [1]	Reference Standard, Method, and/or Equipment
Outside Diameter	Up to 4 in	(9.3 + 31.5*L*) µin	(KM 045) ULM
Inside Diameter	Up to 4 in	(4.7 + 32.7*L*) µin	
Length	Up to 4 in	(9.3 + 31.5*L*) µin	
Depth / Height	Up to 12 in	(150 + 12.9*L*) µin	(KM 202) Electronic Height Gage

Length – Artifacts and Standards 2D

Calibration Parameter/Equipment	Range	Expanded Uncertainty of Measurement (+/-) [1]	Reference Standard, Method, and/or Equipment
Hexalobe Profile	(0 to 0.5) in	(130 + 32.3*L*) µin	(KM 110) Multi Sensor Measurement System (Vision)
Roundness Up to 10 in Diameter	(0 to 0.02) in	42 µin	(KM 105) Precision Form Measurement System

Length – Artifacts and Standards 3D

Calibration Parameter/Equipment	Range	Expanded Uncertainty of Measurement (+/-) [1]	Reference Standard, Method, and/or Equipment
Fixture Gage 3D Volumetric	X axis (0 to 27) in Y axis (0 to 42) in Z axis (0 to 23) in	(190 + 15.6*L*) µin	(KM 003) Coordinate Measuring Machine - Spectrum
Fixture Gage 3D Volumetric	X axis (0 to 19.5) in Y axis (0 to 19.5) in Z axis (0 to 19.5) in	(28 + 18.2*L*) µin	(KM 200) Coordinate Measuring Machine - Micura

Length - Dimensional Measurement 1D

Inspection Parameter	Range	Expanded Uncertainty of Measurement (+/-) [1]	Remarks
1D Dimensional Measurement	(0 to 200) µin	14 µin	(KM 113) Electronic Test Indicator w/ Amplifier
	200 µin to 4 in	78 µin	
	Up to 4 in	(9.3 + 31.5*L*) µin	(KM 045) ULM
	Up to 12 in	(150 + 12.9*L*) µin	(KM 202) Electronic Height Gage
	Up to 2 in	(160 + 11.8*L*) µin	(KM 110) Multi Sensor Measurement System (Laser)

Length - Dimensional Measurement 2D

Inspection Parameter	Range	Expanded Uncertainty of Measurement (+/-) [1]	Remarks
2D Dimensional Roundness	(0 to 0.02) in	42 µin	(KM 105) Precision Form Measurement System
2D Dimensional Measurement	X axis (0 to 14) in Y axis (0 to 12) in	(130 + 32.3*L*) µin	(KM 110) Multi Sensor Measurement System (Vision)

Length - Dimensional Measurement 3D

Inspection Parameter	Range	Expanded Uncertainty of Measurement (+/-) [1]	Remarks
3D Dimensional Measurement	X axis (0 to 27) in Y axis (0 to 42) in Z axis (0 to 23) in	(190 + 15.6*L*) µin	(KM 003) Coordinate Measuring Machine - Spectrum
3D Dimensional Measurement	X axis (0 to 19.5) in Y axis (0 to 19.5) in Z axis (0 to 19.5) in	(28 + 18.2*L*) µin	(KM 200) Coordinate Measuring Machine - Micura

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. L = Length in inches.
2. This scope is formatted as part of a single document including Certificate of Accreditation No. L2164.

Vice President