



CERTIFICATE OF ACCREDITATION

ANSI-ASQ National Accreditation Board

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

This is to certify that

F&G Tool and Die
3024 Dryden Road
Dayton, OH 45439

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

ISO/IEC 17025:2005

while demonstrating technical competence in the field of

TESTING

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

AT-1578
Certificate Number


ANAB Approval

Certificate Valid: 09/26/2018-10/31/2019
Version No. 007 Issued: 09/26/2018



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).



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005

F&G Tool and Die

3024 Dryden Road
 Dayton, OH 45439
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TESTING

Valid to: **October 31, 2019**

Certificate Number: **AT-1578**

Dimensional Inspection & Measurement

Parameter/Equipment	Range	Expanded Uncertainty of Measurement (+/-)	Reference Standard, Method, and/or Equipment
3D Length	Steel Part Up to 12 in	$(26 + 1L) \mu\text{in}$	ZEISS CMM (M17-001) Coefficient Error Compensated Blue Print or Customer Specification Per DIP
3D Length	Steel Part Up to 12 in	$(26.5 + 1L) \mu\text{in}$	ZEISS CMM (M17-012) Coefficient Error Compensated Blue Print or Customer Specification Per DIP
2D Length	Up to 6 x 6 in (0.000 1 in)	$(270) \mu\text{in}$	CCP Optical Comparator Blue Print or Customer Specification Per DIP
1D Length	Up to 1 in (0.000 01 in)	11 μin	Mitutoyo Bench Mic - LVDT Blue Print or Customer Specification Per DIP
	Up to 24 in (0.000 1 in)	$(10 + 9L) \mu\text{in}$	Mahr Digimar Height Master Surface Plate Blue Print or Customer Specification Per DIP
	Up to 1 in (0.000 05 in)	89 μin	Digital OD Micrometers Blue Print or Customer Specification Per DIP
Thread Pitch Diameter	(1 to 11) TPI Up to 1 in (0.000 01 in)	112 μin	Thread Wires Bench Mic-LVDT Blue Print or Customer Specification Per DIP



Dimensional Inspection & Measurement

Parameter/Equipment	Range	Expanded Uncertainty of Measurement (+/-)	Reference Standard, Method, and/or Equipment
Hardness Tester HRC	HRC Low Range Scale HRC Mid Range Scale HRC High Range Scale	1.09 HRC 1.28 HRC 0.84 HRC	Hardness Tester Rockwell Type ASTM E18 Blue Print or Customer Specification Per DIP

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. Best Measurement Uncertainty will be exceeded when Dimensional Inspection is performed in a non-controlled environment.
2. Range and Resolution are Inch Format.
3. L + Length in inches.
4. This scope is formatted as part of a single document including the Certificate of Accreditation No. AT-1578



Vice President