



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: 10/11/2016-10/31/2017
Version No. 005 Issued: 10/11/2016



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 January 2009).



ANSI-ASQ National Accreditation Board

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, 2017

Certificate Number: AT-1578

Dimensional Inspection / Measurement

PARAMETER / EQUIPMENT	RANGE	CALIBRATION AND MEASUREMENT CAPABILITY [EXPRESSED AS UNCERTAINTY(±)] ⁴	REFERENCE STANDARD OR EQUIPMENT	METHOD(S)
3D Length	Steel Part Up to 12 in	(26 + 1L) μin	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) μin	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)	(139 + 13.5L) μin	OGP 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) μin	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



PARAMETER / EQUIPMENT	RANGE	CALIBRATION AND MEASUREMENT CAPABILITY [EXPRESSED AS UNCERTAINTY(\pm)] ⁴	REFERENCE STANDARD OR EQUIPMENT	METHOD(S)
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

Notes:

1. Calibration and Measurement Capabilities (Expanded Uncertainty) are based on approximately a 95% confidence interval, using a coverage of $k=2$
2. Best Measurement Uncertainty will be exceeded when Dimensional Inspection is performed in a non-controlled environment.
3. Range and Resolution are Inch Format.
4. L = Length in inches.
5. This scope is formatted as part of a single document including the Certificate of Accreditation No. AT-1578



 Vice President