

Scope of Accreditation For Sterling Manufacturing & Engineering Inc.

7539 19 Mile Rd.
Sterling Heights, MI 48314
Mike Hobart
586-254-5310

In recognition of a successful assessment to ISO/IEC 17025:2005, accreditation is granted to **Sterling Manufacturing & Engineering Inc.** to perform **Dimensional Inspection** in the following parameters:

Accreditation granted through: **August 7, 2012**

Dimensional Inspection

Length - Dimensional Inspection – Dimensional Measurement 1D

Inspection Parameter/Equipment	Range	Calibration and Measurement Capability(+/-) ²	Remarks
Dimensional Measurement 1D	0.24 in to 10 in	$(14 + 8.7L) \mu\text{in}$	Comparator and Gage Blocks are utilized as Reference Standard for Dimensional Inspection
	0.1 in to 10 in	$(14 + 8.4L)\mu\text{in}$	Mikroikator and Gage Blocks utilized as Reference Standard for Dimensional Inspection
	0.24 in to 30 in	$(85 + 5L) \mu\text{in}$	0.0001 in Indicator and Gage Blocks utilized as Reference Standard for Dimensional Inspection
	0 in to 30 in	$(87 + 17.3L) \mu\text{in}$	Measured with SIP ULM
	0 in to 2 in	44 μin	Measured with Indicating Micrometer
	0 in to 6 in	$(270 + 3L) \mu\text{in}$	Measured with Depth Micrometer

Length - Dimensional Inspection – Dimensional Measurement 2D

Inspection Parameter/Equipment	Range	Calibration and Measurement Capability(+/-) ²	Remarks
Dimensional Measurement 2D	0.25 in to 10 in	(70 + 12.7) μin	Bore Gage and Gage Blocks are utilized as Reference Standard for Dimensional Inspection
	X = 0 in to 30 in Y = 0 in to 20 in	(87 + 17.3L) μin (75 + 15.5L) μin	SIP – X and Y Axis utilized as Reference Standard for Dimensional Inspection of Location and Position

Notes:

- 1) Laboratory offers calibration services at the laboratory's own facilities.
- 2) Best measurement capabilities represent expanded uncertainties at approximately the 95% confidence level using a coverage factor of k=2.
- 3) *L* is the Length of the Unit Under Test in inches.

Approved by: _____


R. Douglas Leonard
Chief Technical Officer

Date: April 1, 2010

Re-Issued: 4/1/10