

Calibration Scope of Accreditation SICMMSE 17025:2005
Certificate Number: G1007.04

MG Metrology Services Inc
White Lake Michigan USA

Parameter / Equipment	Range	Best Measurement Uncertainty	Remarks
Linear Displacement ³	0-40 meters	(0.23+0.19L)um	Renishaw ML10 Laser Per ASME b89.4.1-1997 Sec 5.4.3 Laser Interferometer
Volumetric Performance ³	8 inches	+/- .0001 in.	Quick Gage Per ASME b89.1.9M
Linear Performance ³	0-24 inches	+/- .0001 in.	Mitutoyo Step Gage Per ASME b89.1.9M
Linear Performance ³	0-40 inches	+/- .0001 in.	Mitutoyo Step Gage Per ASME b89.1.9M
Linear Performance ³	12 inches	+/- .0001 in.	Gage Block Per ASME b89.1.9M
Volumetric Performance ³	Ball Bar Lengths (100 through 1000 mm)	+/- (R*64L) uin.	Bal-Tec Ball Bar. L=Length of Ball-Bar Per ASME b89.4.1-1997-Sec 5.5.2-Using calibrated sphere
Repeatability ³	Calibrated spheres ranging from (15.875 through 50.00 mm)	+/- 40 uin.	Per ASME b89.4.1-1997-Sec 5.3.3-Using calibrated sphere

Notes:

- 1) This laboratory offers commercial calibration service.
- 2) Best Uncertainties represent expanded uncertainties using a coverage factor of k=2 which provides a level of confidence of approximately 95%.
- 3) On-site service is available for this parameter.

Disclaimer: *The uncertainties achievable on a customer's site can normally be expected to be larger than the Best Measurement Capabilities (BMC) that the accredited laboratory has been assigned. Allowances must be made for aspects such as the environment at the place of calibration and for other possible adverse effects such as those caused by transportation of the calibration equipment. The usual allowance for the uncertainty introduced by the time being calibrated, (e.g. resolution) must also be considered and this, on its own, could result in the calibration uncertainty being larger than the BMC.*