

**Calibration Scope of Accreditation ISO/IEC**  
**17025 - 2005**

**Certificate Number K1038.04**

**Carolina Metrology**  
**Duncan, SC 29334**

Parameter/Equipment	Range	Best Measurement Uncertainty	Remarks
<b><u>Coord3 10.15.09</u></b> Serial # 3266	(X) = 1000mm (Y) = 1500mm (Z) = 900mm	0.0012mm 0.0015mm 0.0009mm	+/- U=0.5+1.83Lum +/- U=0.5+1.83L um +/- U=0.5+1.83L um L = meters
<b>Volumetric Performance<sup>3</sup></b>	1.35m <sup>3</sup>	0.0060mm	U = +/- 0.00023 mm U = Uncertainty
<b>Repeatability<sup>3</sup></b>	(X) = 1000mm (Y) = 1500mm (Z) = 900mm	0.0010mm 0.0013mm 0.0006mm	U=+/- 0.0006 mm U=+/- 0.0006 mm U=+/- 0.0006 mm U = Uncertainty

Parameter/Equipment	Range	Best Measurement Uncertainty	Remarks
<b><u>Coord3 07.10.07</u></b> Serial # 3265	(X) = 700mm (Y) = 1000mm (Z) = 700mm	0.0015mm 0.0014mm 0.0017mm	+/- U=0.5+0.96L um +/- U=0.5+0.96L um +/- U=0.5+0.96L um L = meters
<b>Volumetric Performance<sup>3</sup></b>	0.49m <sup>3</sup>	0.0040mm	U = +/- 0.00008 mm U = Uncertainty
<b>Repeatability<sup>3</sup></b>	(X) = 700mm (Y) = 1000mm (Z) = 700mm	0.0008mm 0.0009mm 0.0008mm	U=+/- 0.0008 mm U=+/- 0.0009 mm U=+/- 0.0008 mm U = Uncertainty

Parameter/Equipment	Range	Best Measurement Uncertainty	Remarks
<b><u>Faro Ion Laser Tracker</u></b> Serial # Y01001204034	0.0 - 53.0m	4 $\mu$ m + 0.8 $\mu$ m/m	Inferometer Accuracy (MPE)
	0.0 - 53.0m	16 $\mu$ m + 0.8 $\mu$ m/m	Agile ADM Accuracy (MPE)
	0.0 - 53.0m	16 $\mu$ m + 0.5 $\mu$ m/m	Angular Accuracy (MPE)

Parameter/Equipment	Range	Max Measurement Uncertainty	Remarks
<b><u>FARO PCMM</u></b> Serial # E12051512639	0.0 - 3.7m	0.091mm	Volumetric (Max Spec)
	0.0 - 3.7m	0.064mm	Single Point (Max - Min)

Parameter/Equipment	Range	Max Measurement Uncertainty	Remarks
<b><u>FARO HD Scanner</u></b> Serial # LLP001516787	0.0 - 3.7m	0.025mm	Accuracy Specification

**Notes:**

- 1) This laboratory offers commercial Dimensional Inspection services.
- 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.*