Q: How accurate can you measure a 100 mm Gauge block with a laser tracker?

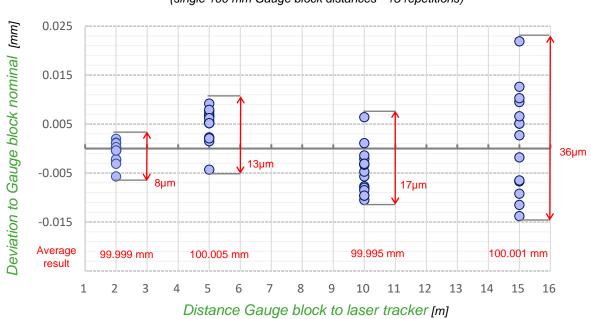
Experiment description: Determination of 100 mm Gauge block with a laser tracker measured at different distances to Tracker (2m, 5m, 10m and 15m) measured as simple "2-point-distance" in 15 repetitions with a FARO laser tracker and 7/8" PLX-reflectortarget coordinates Why a FARO laser tracker and 7/8" VLX-reflectortarget coordinates

SIGMA3D

Calibrated 100 mm Gauge block

A: You can measure it @ 15 m with \pm 18 μ m

Specifications: laser tracker angular accuracy (MPE): 20 µm + 5 µm/m (FARO specifications for the 15 m measurement: ± 0.134 mm)



Scattering of the deviations

(single 100 mm Gauge block distances - 15 repetitions)

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