

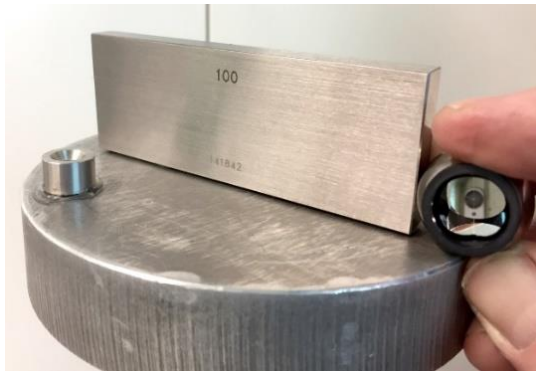
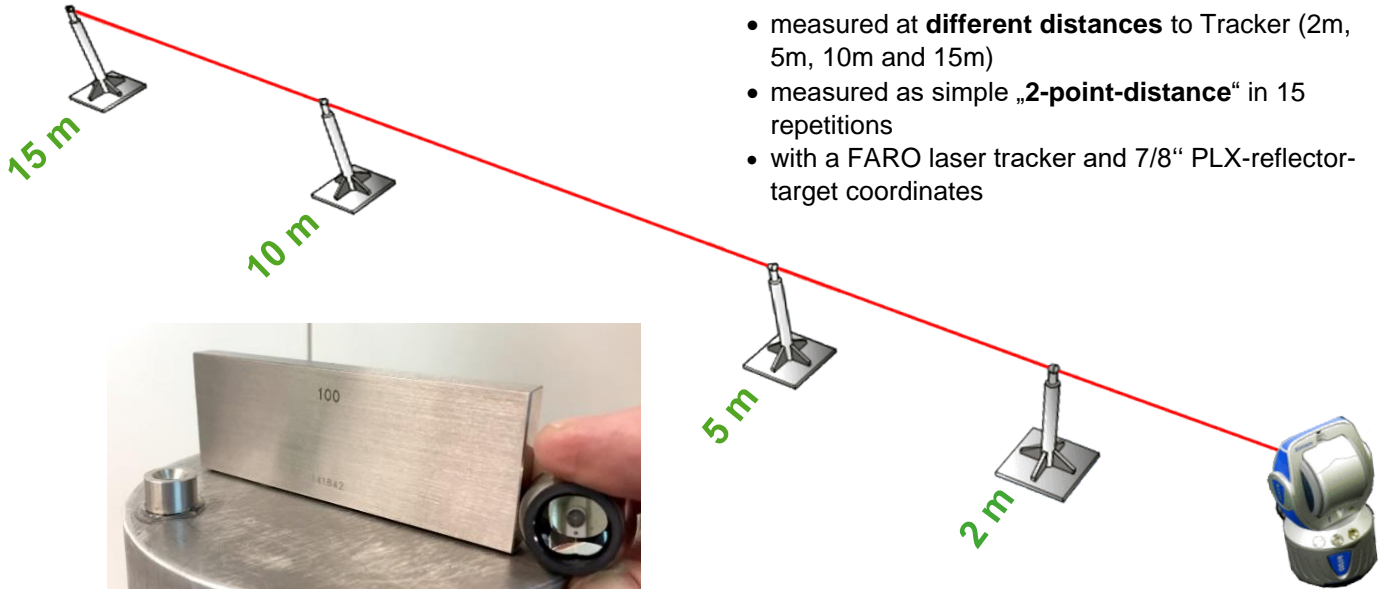


Q: How accurate can you measure a 100 mm Gauge block with a laser tracker?

SIGMA3D

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-reflector-target coordinates



Calibrated 100 mm Gauge block

A: You can measure it @ 15 m with $\pm 18 \mu\text{m}$

Specifications: laser tracker angular accuracy (MPE): $20 \mu\text{m} + 5 \mu\text{m/m}$ (FARO specifications for the 15 m measurement: $\pm 0.134 \text{ mm}$)

Scattering of the deviations

(single 100 mm Gauge block distances - 15 repetitions)

