# Innovative ruby|plate technology

- New calibration phantom for VDI 2630 verification and voxel-size calibration
- Patented design: ruby spheres on ceramic plate
  - full VDI 2630 compliance covering 3 directions (horizontal, vertical, diagonal) with one scan
  - 3x faster verification compared to current metrology 1.0 technology
- Maximum probing length of 130 mm
- Accurate calibration uncertainty of the phantom: < 1 μm
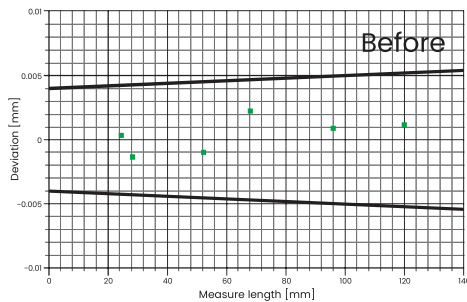
metrology|edition 1.0 with ball|bar technology
- 6 measurements per scan, all in one direction
- More deviation > (4.0 + L/100 mm) μm
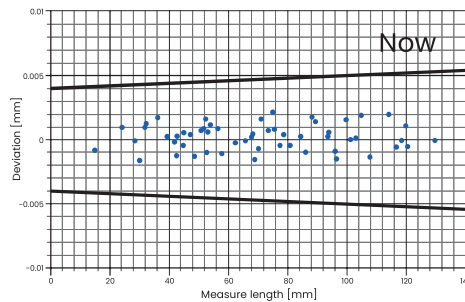
**metrology|edition 2.0 with true|position technology**
- 55 measurements per scan, in all directions
- Less deviation > (3.8 + L/100 mm) μm

true|position

- Advanced method for compensation of residual system mechanical uncertainties based on laser-scan data once generated at system calibration. This allows measurement with specified accuracy at all positions.
- Expands the measurement positions with specified accuracy to all positions which allows a faster setup of CT scans with high measurement accuracy.
- New VDI 2630 specification: $SD = (3.8 + L/100 \text{ mm}) \text{ μm}$ (2 positions per standard)
- Specification for any other position: $SD = (5.5 + L/50 \text{ mm}) \text{ μm}$ (which can be verified with the ruby|plate)
- Accuracy of true|position spec can be increased to VDI spec by simple and fast automated easy|calib (<10 min effort).

Improved measurement accuracy with true|position
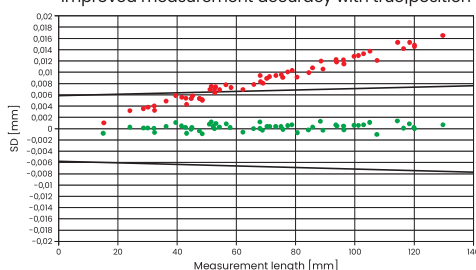
Without true|position
- Specification only available at predefined position
- Up to 15 μm length measurement error at other positions

With true|position
- Specification available at all positions
- Length measurement error < (5.5 + L/50 mm) μm

Contact:

Waygate Technologies
Niels-Bohr-Str. 7
31515 Wunstorf / Germany
Tel.: +49 5031 172 100
E-mail: phoenix-info@bakerhughes.com

waygate-tech.com

Waygate Technologies
a Baker Hughes business