



Flatness inspection on ceramic wall tiles

In the production of ceramic wall tiles or similar products, a one hundred percent quality inspection is essential. Three laser triangulation displacement sensors measure the deflection of tiles with an accuracy of 0.1 μm . Separate specification values can be entered for concave or convex deflections.

Requirements for the measurement system

- Measuring range: 20 mm
- Reference distance: 50 mm
- Accuracy: ± 0.1 mm
- Fast adaptation to varying surface conditions

Ambient conditions

- Production environment
- Temperature range: + 10 to 35 °C
- Low dust generation

Reasons for choosing the system

- Large base distance.
- High measurement accuracy.
- Simple mounting.
- Easy interfacing to measurement acquisition system (microcomputer system).
- Very fast sensors for high process speed

