

## 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  $0.1 \mu\text{m}$ . Separate specification values can be entered for concave or convex deflections.



### Technical details

- Measuring range 20 mm
- Reference distance 50 mm
- Accuracy  $\pm 0.1 \text{ mm}$
- Fast adaptation to varying surface conditions

### Ambient conditions

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

### System setup for optoNCDT

- 3x LD1605-20 Laser-based optical displacement sensor
- PS 1605 Built-in power supply unit for 3 sensors.

### Reasons for the system selection

- Large base distance.
- High measurement accuracy.
- Simple mounting.
- Easy interfacing to measurement acquisition system (microcomputer system).

### Principle

