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OPTALIGN® smart RS5

Straightness measurement in two dimensions



- Cost-effective solution for straightness measurements
- Improvement of machine geometry
- Easy operation
- Bluetooth® communication 

OPTALIGN® smart RS5 Straightness

What is straight on one axis might be bent on another. Damages due to external factors such as a hit, a weak foundation or equipment wear may result in production defects and scrap.

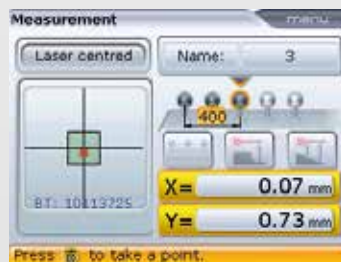
With OPTALIGN® smart RS5, PRUFTECHNIK introduces a solution that is easy to use and delivers straightness measurement results on both axes with only one measurement.

For industrial applications

- Measure straightness of machine beds
- Position bearings and shaft supports
- Monitor surface deflection and bending in structures
- Align rail and track sections
- Measure deflection on rams, actuators and extrusion presses
- Align roll profiles

Advantages at a glance

- Available as a cost-effective upgrade for existing OPTALIGN® smart RS5 shaft users, or stand-alone
- 2D straightness measurement
- Manual and automatic tolerance value
- Extend function for surfaces with large unevenness
- Infinisplice® for measurement of infinite surface length
- Repeatability check with the measurement table
- Live Move to monitor correction points in X and Y direction
- Generate PDF reports from within the device
- ALIGNMENT CENTER PC software to manage measurement files and create professional reports (optional)



Measure a line in only 3 steps:

- ▶ Enter dimensions
- ▶ Take a measurement at each position
- ▶ Display measurement results



The measurement principle

The sensor measures the deviation of each measurement point relative to the laser reference. Both horizontal and vertical coordinates are recorded to precisely determine the straightness of lines. In addition, the inbuilt MEMS inclinometer reads the angular position which enables to define the straightness of shafts and rolls.



TolChek®



For industrial use



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