

3D Surface inspection

Optical examination system for the automatic optical control of pipes



Outer surfaces

Outer surfaces are examined for very small areas of damage.

Inner surfaces

The inner surfaces are examined particularly for chips and other particles.

Front surfaces

Front surfaces are checked for very small defects.

Size accuracy

Diameter, length, deflection/straightness and chamfers are examined for size accuracy.

Example applications:

- + **Test characteristics of the outer surface:**
dents, kinks, striae, scratches and other defects
- + **Test characteristics of the inner surface:**
chips and other particles
- + **Resolution/accuracy**
from 0.01 mm
- + **Surface test characteristics**
from 0.05 mm
- + **Dynamic Verification:**
test results for various scenarios are verified and feed into the next test in real time.
- + **Statistical evaluation of the test results**
for each test characteristic across freely selectable periods of time
- + **Storage and analysis**
of fault images

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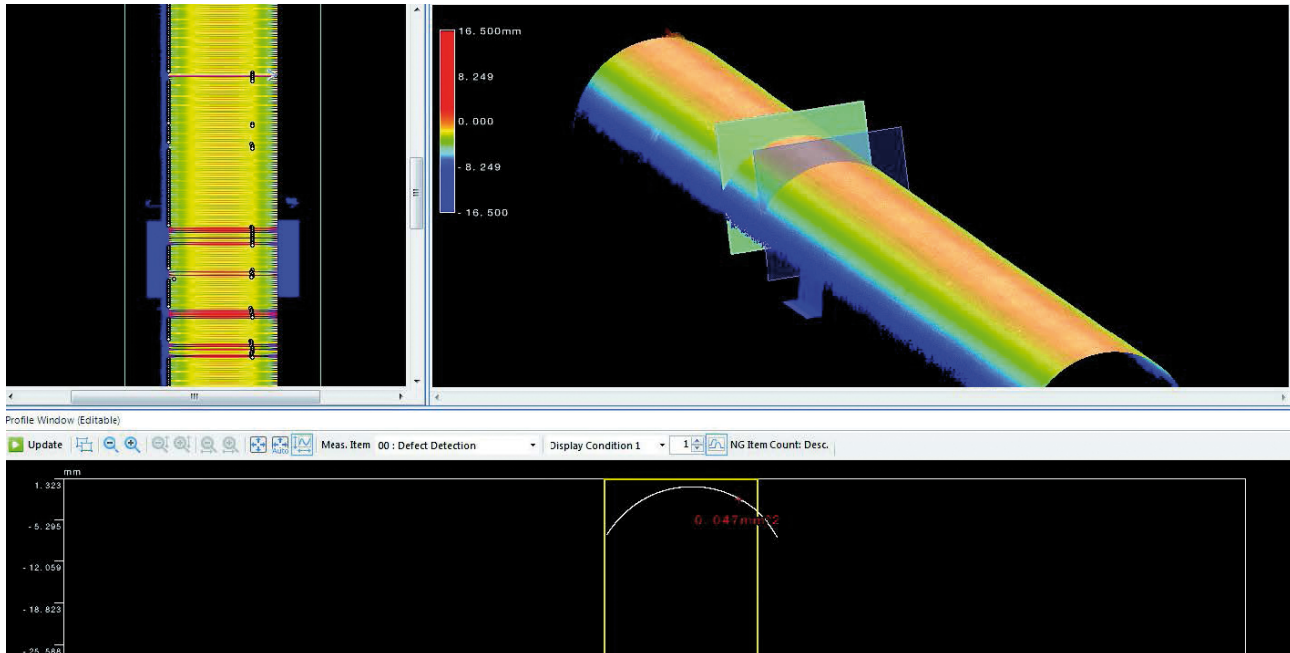


Fig.: The damage was recorded to the sensor at 3 different positions.

Everything from a single source

Thanks to our integration into the **Pütz Group** and the resulting **synergy effects** we are able to offer you solutions beyond simple image processing: from camera integration through the test cell to a complete automation solution.

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