

## 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 of the pipe:**

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

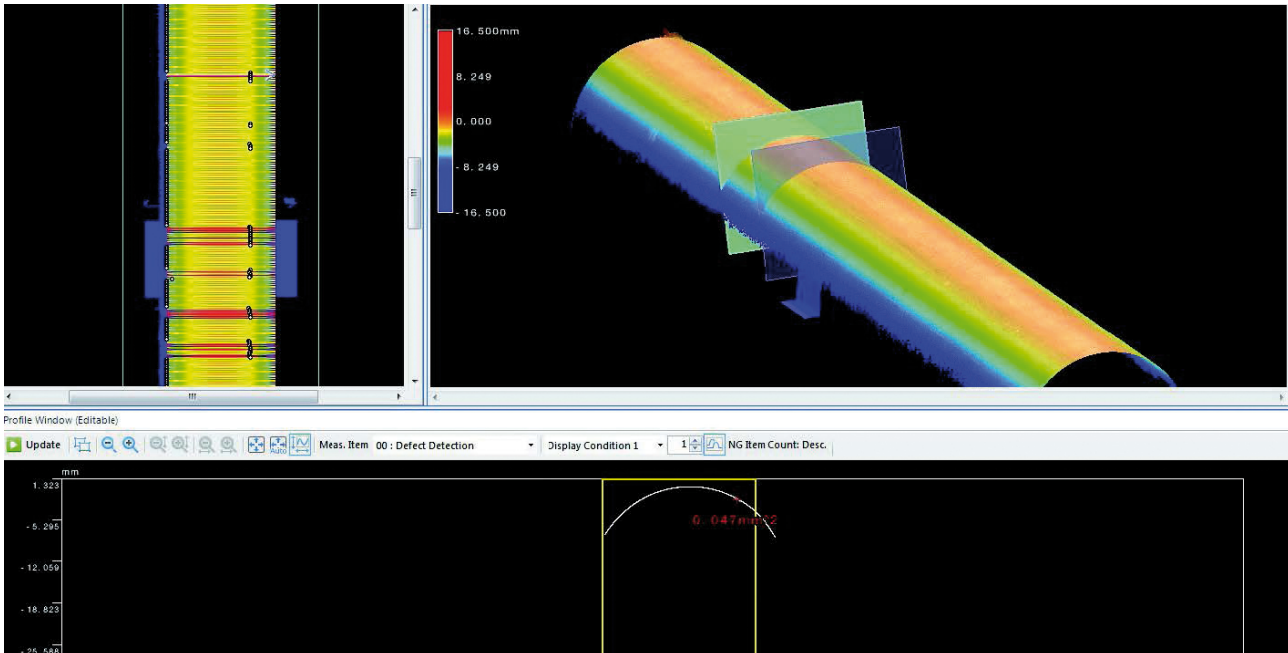
**+ Statistical evaluation of the test results**

for each test characteristic across freely selectable periods of time

**+ Storage and analysis**

of fault images

### 3D SURFACE INSPECTION



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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