

Fact Sheet 

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ROOSA™ 3D
Rotary Objects 3D-Surface Analysis

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vision technology



ROOSA™ 3D

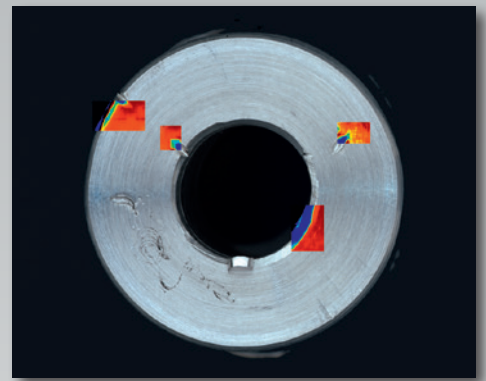
Rotary Objects 3D-Surface Analysis

3D-surface analysis of turned parts

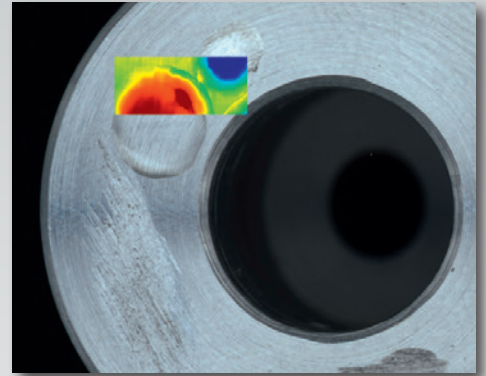
ROOSA™ 3D is the outstanding optical inspection system for 100% quality control of high precision turned parts. Our 3D-surface specialist is formed by the perfect fusion of latest 3D-camera technology and application-specific LED illumination in one optical module. Independent of any textures and disturbances ROOSA™ 3D reliably detects surface defects, such as grooves, scratches and shrink holes by using the height and depth information of the image. At the same time ROOSA™ 3D provides the feature to check the dimensional accuracy as calibrated height and depth values are supplied by the system.

Features and benefits at a glance

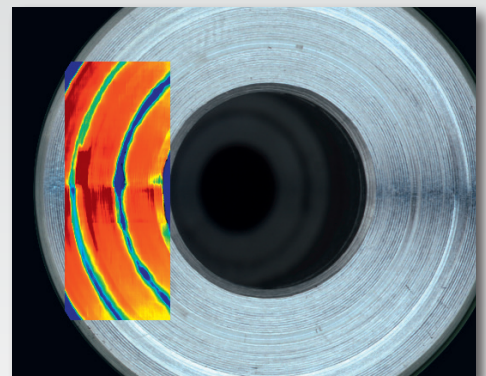
- Robust, texture-independent detection of even the smallest surface defects (e.g. grooves, scratches, shrink holes, dents, bumps, corrosion)
- Measurement of the surface profile (typ. height resolution 1-2µm at 40 mm field of view)
- Monitoring of processing residues like flashes and cuttings
- High inspection performance
- 3D visualization of the lateral surface with automatic adjustment of the rotary position
- Simple set up of new rotary parts
- Compact optical module with automatic LED illumination control
- Comprehensive statistical functions
- Interface for database and ERP systems' connection
- Integrated interface for remote service



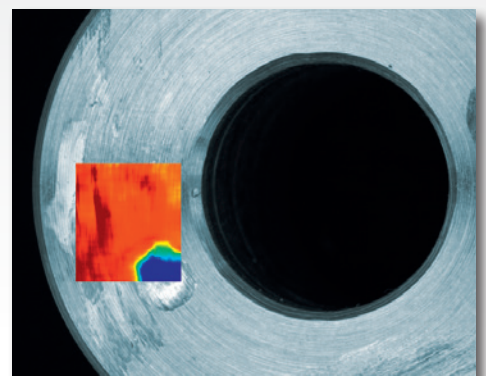
Surface inspection, detection of notches and grooves



Distinction between water drop and dent



Grooves and scores in height image



Distinction between smudge and dents

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