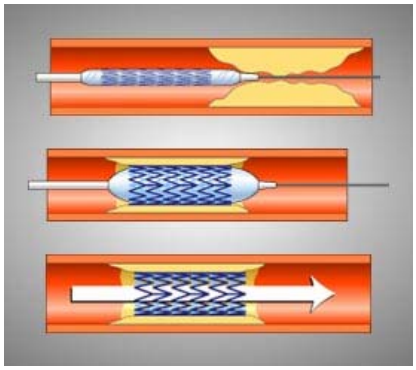
NanoFocus

Application Note Medical Technology



- **Optical 3D Measurement**
- **Calculation of roughness coefficients (2D, 3D)**
- **Sub-micron resolution**
- **Robust Technology**

Task

Stents are produced from special „memory metal“ and are technically very demanding, in respect of both the geometry of the patterns and the surface smoothness. And additionally it’s important to measure the thickness of biological coatings.

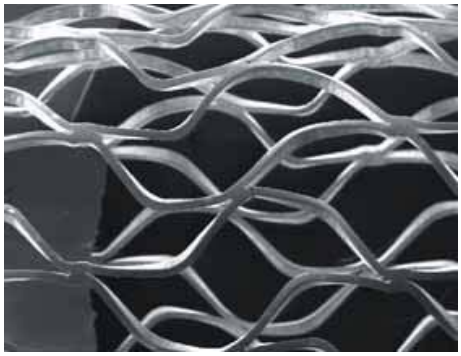


Fig.1 3D measurement of cut surfaces

The µSurf Solution

The µSurf measurement system captures surface roughness, pattern micro-geometry and also the coating of metal surfaces with a single scan. Because of its large working distance both outer and inner layer surfaces can be measured.

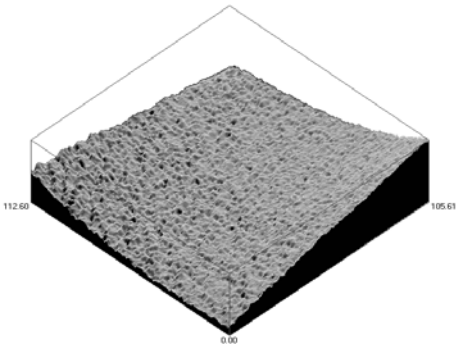


Fig. 2 3D measurement with profile angle analyses

Advantages

- **Quality control of complex metal surfaces**
- **Evaluations in line with DIN, EN**

Technical Information

System	NanoFocus µSurf StentScan
Optical magnification	20x
Surface capture area	800x800µm²
Resolution z - x/y	20nm – 1,2µm
Software	NanoFocus µSoft / WinSam /

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