

Print and Paper Industry



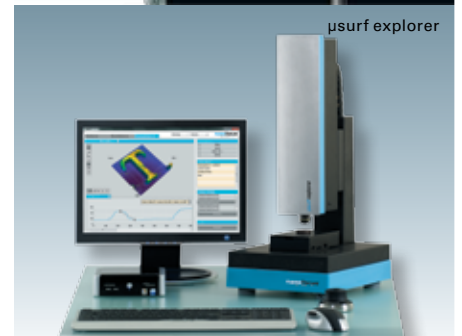
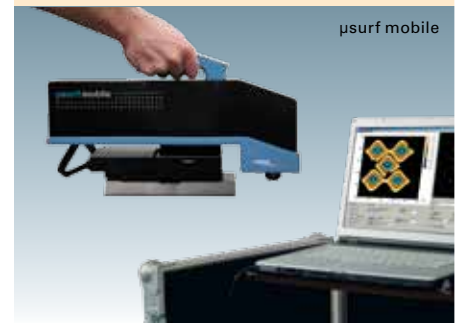
How to control your production processes and ensure quality – from the printing cylinder to the finished product.

Innovations in the paper and printing industry improve quality and increase efficiency. For this reason, it is ever more important to measure the surface topography and roughness at different stages of production. NanoFocus has a variety of high-precision optical solutions for this multitude of tasks.

The 3D microscope μ surf mobile, for example, is capable of measuring the surface of a cylinder in the production environment with an accuracy of 1 nanometre.

With the aid of the PrintMaster software for measuring printing cells on a cylinder, it is possible to measure cell volume, width and depth at the press of a button. This helps to prevent mistakes being made during production and minimise potential consequential damages. The μ scan-series offers maximum flexibility when measuring large surface areas without contact. All measurement processes are automated, right down to the report.

- ▶ Transportable and also in a lab configuration
- ▶ Easy-to-use
- ▶ Automatic measurement and evaluation of cells
- ▶ Length, width, depth
- ▶ Surface area, screen, volume
- ▶ Metal, ceramic, and rubber surfaces
- ▶ Chemically etched, electro-
nically engraved, direct laser
engraved
- ▶ Automatic report



NanoFocus AG

Lindnerstr. 98 | D-46149 Oberhausen
Phone +49 (0) 208-62 000-0 | Fax +49 (0) 208-62 000-99
sales@nanofocus.de | www.nanofocus.de

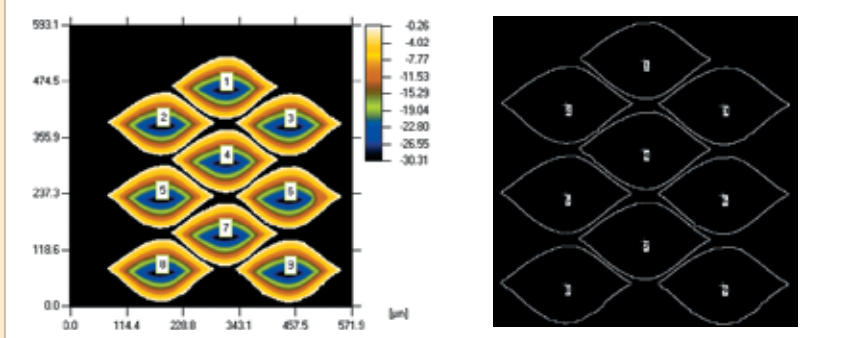
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Graphische Technik und Handel

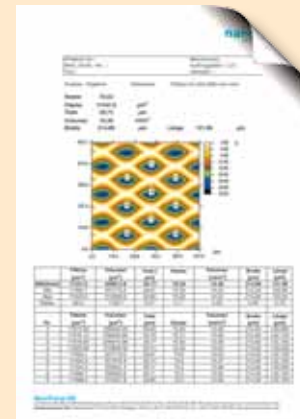
Graphische Technik und Handel Heimann GmbH
Pferdekamp 9 | D-59075 Hamm | Phone +49 (0) 2381-97216-46
Fax +49 (0) 2381-97216-2 | info@heimann-hamm.de | www.heimann-hamm.de

NanoFocus-PrintMaster

Automatic cylinder cell measurement and analysis



The PrintMaster software automatically measures parameters such as cell depth, width, volume and screen at the press of a button. The report contains not only all measurements but also a graphic visualisation. Additional values such as roughness or cell diagonal can be measured quickly by hand.



PrintMaster measurement report for the analysis of printing cells.

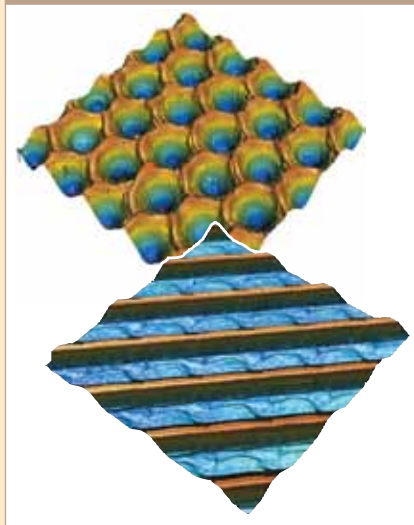
Applications

Paper machine clothing



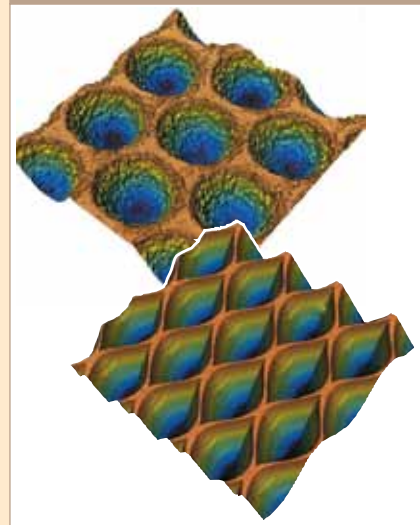
Screen absorption rolls regulate properties in the manufacturing process - such as formation and filler. Transportation of the continuous screen fabric must be characterized precisely, e.g. by means of the bearing ratio between screen and paper. The µscan custom captures the dry screen without any problems. Geometric measurements are possible immediately in the µsoft control software interface. Typical parameters, e.g. the load ratio, can be calculated on the basis of the measurement data.

Anilox rolls – flexo print



In flexo printing, anilox rolls are used to transfer the ink to the printing surface. In order to ensure an equal amount of ink is applied the structure of the anilox must follow certain geometric specifications. The µsurf mobile enables these quality-relevant parameters to be measured and evaluated.

Gravure – printing cylinders



In gravure the cells are created by means of electromechanical engraving, chemical etching, or direct laser engraving. In order to optimise the processes, the µsurf mobile measures the topography of the cylinder while positioned on it. The cell volume and geometric structures of the cylinder are automatically measured and analysed with the PrintMaster software.

Should you be interested in other fields of application or other products and need advice, please do not hesitate to call us or contact us via e-mail: sales@nanofocus.de

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