CylScan

Cylinder Wall-Scanner

breitmeier
A NanoFocus Company

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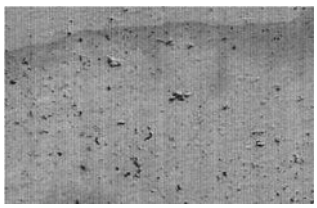
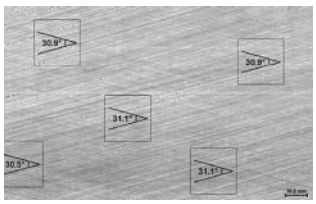
Contactless Automatic 360° Surface Inspection & Analysis

- **Recognition of Surface Anomalies** scratches, voids, pits, honing angles
- **Recording + Preview Mode**
- **Photo-like Image Quality**
- **Customizable**
- **Low Maintenance**
- Portable or Semi-automatic
- 3-jaw chuck
- Q-Das qs-STAT



Defects on the Fe coating of a cylinder wall

Automatic calculation of honing angle on customized positions



The CylScan instrument **scans the entire cylinder wall surface** with high resolution and displays it as a whole picture. This is achieved using a color line scanner with an integrated light source.

The scanning head is centered using an adapter plate or a variable 3-jaw chuck for cylinder bores of 68 up to 150 mm diameter.

It belongs to the product line of Breitmeier Messtechnik GmbH. Since 2001 the company has been designing, developing and building cutting-edge measurement devices and systems in Germany.

for all Standard Engines & Liners

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CylScan

Technical Specification

Measurement principle		Color Line Scanner
Cylinder diameter	[mm]	68 - 150; *
Axial scanning range	[mm]	210
Axial resolution, max.	[µm]	20 (1200 dpi)
Submersion depth, max.	[µm]	270
Vertical travel range	[mm]	120 - 270; *
Dead range, bottom	[mm]	15
Scanning time, approx.	[mm]	3 - 20
Accessory	[s]	3-jaw chuck or adapter plate; Industrial PC; TFT-Monitor

Software

Operating system	Windows 7; Windows 8; Windows 10
Image formats	TIFF; BMP; PNG; JPG; *
Export formats	QDAS; Excel; ASCII; *
Scan and representation	Measurement-visualization tool for scanner
Options	Evaluation software of honing grooves and pore area

Measurement Environment and Dimensions

Measuring head (D x h)	[mm]	Ø 230 x 440
Weight	[kg]	16
Operating temperature	[°C]	10 - 35
Vibration damping		Not necessary; available upon request for specific environments

* Customizable

Scanners

PistonScan

External scanner for evaluation of outer surfaces

Multi-Scanner Solution as an application for manufacturing

Several scanners can be lowered into adjacent cylinder bores. A complete engine block can be scanned in less than 30 seconds whilst achieving maximum efficiency in the visual inspection.

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