

CylinderInspector 2D



Specification

CylinderInspector 2D is a precise engineered system for heavy duty routine and lab inspection of cylinder bores. CylinderInspector 2D enables all-optical, non-destructive inspection and measurement with controllable depth insertion and 360° rotation mechanism.

| | |
|-------------------|--|
| Camera | CMOS, USB 3.0 |
| Illumination | high-power LEDs, continuously dimmable, brightfield and darkfield combinable |
| Maximal insertion | 265 mm |
| Cylinder diameter | 60 – 125 mm (for $\varnothing > 125$ mm an adapter is needed) |
| Rotation axis | manual gear |
| Insertion axis | manual gear |
| Focus axis | manual focus |
| Magnification | integrated 7x zoom (with click stops) |
| Field of view | ~6.8 x 5.4 – 1.0 x 0.8 mm |
| Focus | manual |

Accessories

| | |
|-------------------|--|
| 043-102104-V4-A02 | HD-Module (field of view: ~1.7 x 1.3 – 0.3 x 0.2 mm) |
| 043-102104-V4-A03 | Stand for object dimension WxLxH 245 x 245 x 300 mm |
| 043-102104-V4-A06 | Stand for object dimension WxLxH 445 x 445 x 300 mm |
| 043-102104-V4-A07 | Mount for calibration target |
| 050-911104 | PxF Camera-Support UI-XX Module |
| 050-911107 | PxF Manu-Meter Module |
| 050-911103 | PxF CylinderInspector Module |
| 050-911102 | PxF Particle-Analysis Module |
| 050-911118 | PxF Sticking Module |

04/2017 - Specifications are subject to change without prior notice.

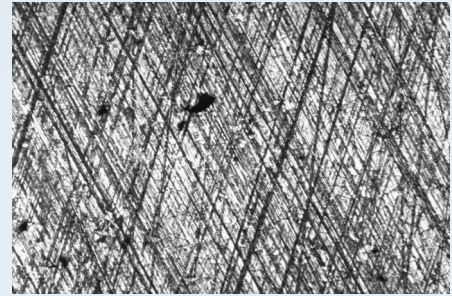
2D-Surface Metrology

CylinderInspector 2D is perfect for use in advanced quality control, laboratory and development environments where medium sample quantities are processed. It enables precise and repeatable measurement of pre-defined parameters or quick checks to secure the production process. It is part of the quality insurance and allows higher levels of product quality control.

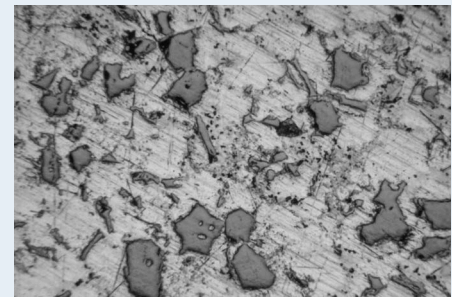
- Non-destructive image analysis
- High end optical system for perfect „in-cylinder“ image quality
- Optical zoom system for variable field of views
- Full 360° rotational view with variable insertion depth adjustment
- Able to fit wide variety of cylinder diameter
- Optimized illumination options for different surfaces and structures

Optional software suite:

- Totally customizable software and report tool
- Perfect automated inspection of honing angles
- Manual analysis of crystal distribution
- Standardized inspection process between supplier and customer



Analysis of honing structures



Silica destruction rate

Technical Drawing

