

Visionline V200 Series

Optical bore inspection systems for automated detection of surface defects



Configuration example optical inspection system Visionline V205

Your advantages

- Reliable, reproducible and documented test results
- Wear-free and dependable thanks to optical testing technology
- Fast inspection with short cycles
- Easy retooling of the system when changing workpieces
- Safety in case of misalignment of the workpiece thanks to collision protection
- No operator influence
- Reduction of pseudo errors and unrecognized defects (slippage)

System features

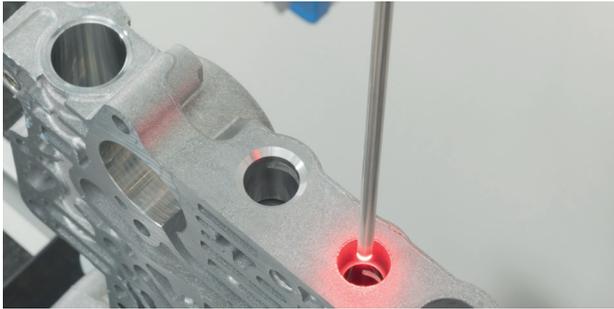
- Compact system with minimum space requirement
- Robust design for use in production environments
- Light barrier for safe operation
- Testing of bore diameters of different sizes
- Optional X and Y axes for precise workpiece positioning and automated inspection runs
- Proven technology with 360° optics
- Image pickup whilst in motion for fast results
- Head-on collision protection
- Connection to QDA systems possible

Robust detection of defects in bores

- Software Evovis Vision with live mode and numerous evaluation and analysis functions
- Precise inspection of bore surfaces
- High-resolution and distortion-free images of the surface
- Detection of common surface defects such as cavities, pores, scratches, etc.
- Process-reliable differentiation of defects and residual dirt from drying
- Adaptive, dynamic masking for reliable edge inspection

Visionline V200 Series

Optical bore inspection



Inspection of bore surfaces

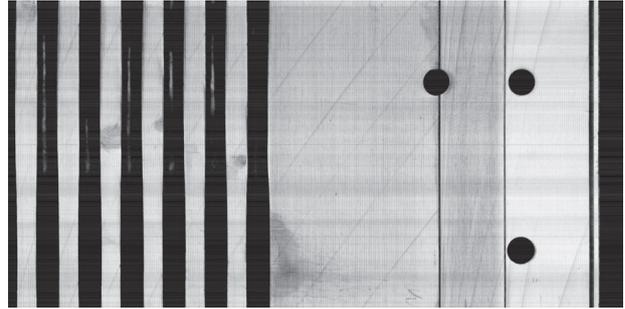
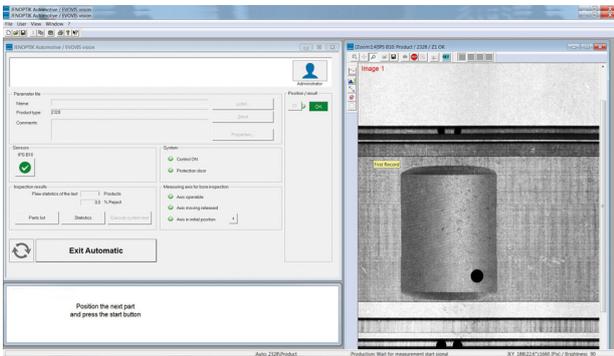


Image of a bore surface

Evovis Vision inspection and evaluation software



The graphical, function-oriented user interface guarantees simple and accurate operation of the test system. Numerous functions and wizards as well as the conversion of the system to a specific workpiece with just a few steps simplify the use of the software.

Evovis Vision allows for robust detection and evaluation of surface defects as well as crossbores and chamfers and delivers clearly documented results and detailed representations of the bore surface.

Technical data

System	Visionline V205	Visionline V220
Sensor	B5	B20
Test diameter	5 – 14 mm	14 – 50 mm
Max. immersion depth of sensor	190 mm	250 mm
Error detection limit	100 µm	
Workpiece		
Max. workpiece height incl. fixture	400 mm	
Max. workpiece dimensions [L x W]	520 x 150 mm	

Version	With underframe	Tabletop
Dimensions and weight		
Height	2175 mm	1290 mm
Width without holder for monitor/keyboard	920 mm	
Width with holder for monitor/keyboard	1533 mm	
Depth	930 mm	
Weight	350 kg	280 kg