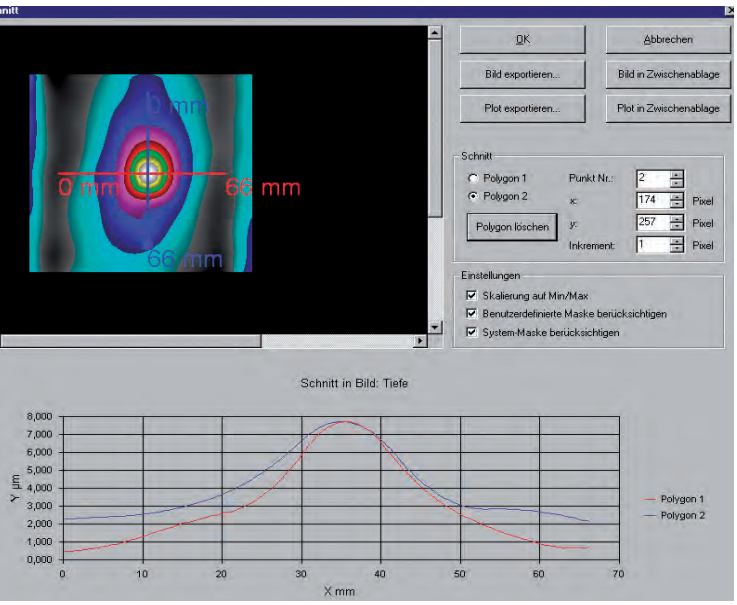
STEINBICHLER ABISoptimizer

PORTABLE SURFACE INSPECTION FOR THE INDUSTRIAL SHOP FLOOR



The worldwide first portable surface inspection system STEINBICHLER ABISoptimizer offers in-depth analysis and objective surface classification for efficient quality control.

OBJECTIVE AND HIGHLY PRECISE SURFACE INSPECTION

Particularly in consumer goods industry, the surface quality of a product is a decisive criteria for purchase decisions. Furthermore, the constantly increasing competition and focus on cost control demands a timely and objective detection of surface defects during the complete product development and production cycles.

The flexible, compact and highly precise ABISoptimizer sensor system has been developed especially for applications at an early stage of manufacturing processes. Practice-oriented properties such as extremely rugged design and dust-proof optical components, allows operation even under the most harsh industrial environment conditions.

EASY OPERATION AND EXCELLENT MOBILITY

Thanks to its extremely compact components, the STEINBICHLER ABISoptimizer system is ready to run with minimum preparation. The high mobility supports an easy and flexible relocation of the measurement set-up to allow in-process, selective inspections in different areas such as tool making, pilot production and also during the complete tool optimization process.

Measurements are carried out simply and reliably via the user-friendly software. The user can choose from a wide range of evaluation and protocol functions which optimally support application-specific analyses.

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INSPIRING INNOVATION

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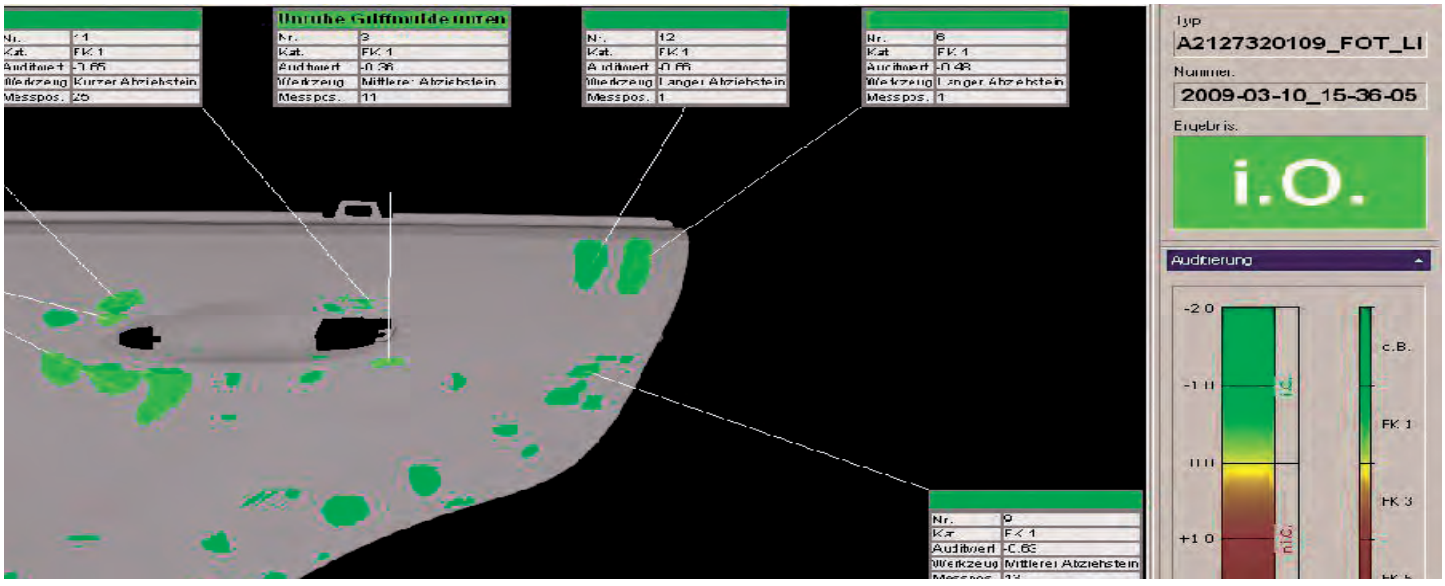
COST-EFFECTIVE AND EFFICIENT SURFACE INSPECTION

The STEINBICHLER ABISoptimizer features a highly favorable price/performance ratio and uses most advanced technical methods, e.g., the BLUE-LED illumination technology. Thus, the system is an excellent instrument for obtaining a continuous, objective and reproducable inspection of the surface quality. Surface defects like bumps, dents, waviness and other anomalies can be detected and protocolled in each specific department such as tool making or even during the complete process chain.

With the early defect discovery, rejects as well as expensive and resource-intensive corrections, can be limited to a minimum. The early detection with corresponding tool or process optimizations substantially increases the quality control efficiency and significantly enhances the surface quality. In addition, the economic use of working time and commodities further contributes to the significant savings.

TECHNICAL DATA

Dimensions (mm³)	670 x 80 x 100
Weight (kg)	4.7
Image Acquisition Time	100 msec.
Field-of-View	220 x 300 mm²
Data Interface	GigE
Resolution CCD Camera (Pixels)	1200 x 1600
3D Defect Size Resolution (Depth)	10 µm (min.) depending on surface
Lateral Defect Resolution	1.5 mm depending on surface
Stand-Off Distance	432 mm +/- 20 mm
Light Source	BLUE-LED



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