PRESS News

ISRA VISION

Release:	No. 615, 20.09.2016
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PRESS NEWS

Important development for flat glass production

Innovation: fully-automated inline inspection of reflection optics

Undesired optical distortions can render glass panes useless for many applications. With FLOATSCAN Reflected Distortion, ISRA offers the first ever fully-automated inspection system for comprehensive quality monitoring and reliable detection of defects directly in the production line. The quality data obtained can be used immediately to optimize processes.

Optically reflective distortions are caused by undesired curvature in glass surfaces and become visible when the image reflected on the glass surface is distorted. Strong surface waviness in glass leads to considerable functional limitations. Distorted reflection means that the glass cannot be used in the production of mirrors, and lamination also becomes more difficult. This applies to glass panes with strong curvature at the edges, for example. In order to prevent defective material being processed further, such defects need to be taken into account when the panes are cut. With FLOATSCAN Reflected Distortion, ISRA offers a perfectly-tailored, fully-automated solution to meet these challenges. The system can be combined with other solutions such as FLOATSCAN Color and integrated with the all-in-one solution FLOATSCAN 5D.

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Proven and patented expertise based on years of experience

ISRA relies on its proven expertise gained over years of experience with software and hardware deployed in countless successful system installations.

The inspection system enables reflection optics – which are chiefly determined by the surface curvature – to be inspected directly on the float line, eliminating the need for static measurements in the laboratory. ISRA is fully familiar with and knows how to tackle the harsh ambient conditions in the float line and has tailored its systems perfectly to this task. As a result, the FLOATSCAN Reflected Distortion systems enable inline quality and process control directly on the float line. The features of the glass products are inspected in great detail and at a very early stage of production, offering users valuable support in improving cutting processes. The quality data is analyzed on the spot and used to optimize production processes – Industry 4.0 as live and direct as it gets.

Thanks to the modular software, the inspection results from the FLOATSCAN Reflected Distortion system can be integrated and displayed directly in the FLOATSCAN 5D software. The quality of the goods produced can be determined accurately based on this information, ensuring products that perfectly meet the customers' quality standards' and eliminating the risk of customer complaints. Customer loyalty is further boosted by the 100% assured quality achieved in mirrors and laminates. Furthermore, the quality data on the glass produced also makes it possible to tap new markets.

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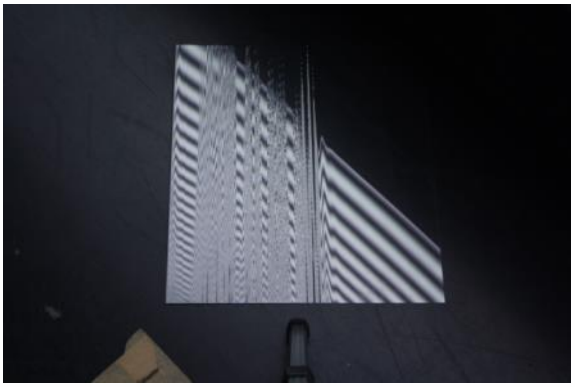
Optimizing processes based on valuable quality data

FLOATSCAN Reflected Distortion collects valuable information for Industry 4.0 applications in glass production. Thanks to system-controlled visual representation of the valuable information obtained through these systems, manufacturers succeed in optimizing their processes and saving resources in a targeted manner. To achieve this goal, industrial production must be consistently interlinked with state-of-the-art information and communication technology.

Images



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The stereo deflectometry measuring method reveals changes in the surface curvature and helps to optimize glass edge cutting.

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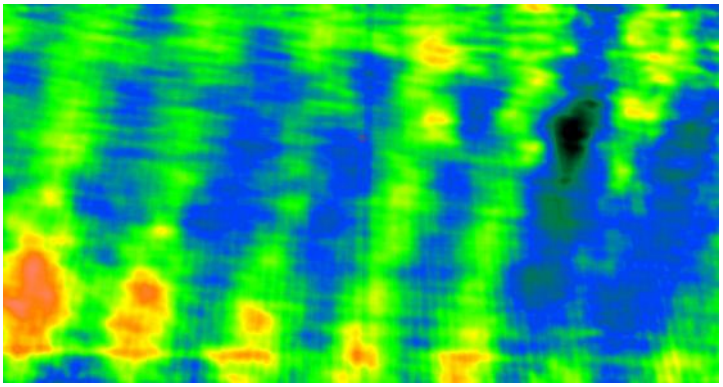

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The measuring system enables reliable detection of changes in the surface curvature at an early stage.

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