
Release: No. 725, October 23, 2018

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Fully automatic print inspection for automotive glass guarantees quality with reproducible inspection results

Cost benefits in automotive glass production – with 100% inline inspection of screen prints

Reliable detection of screen printing defects on automotive glass: Thanks to automated optical inspection, defects are identified before they can compromise the exceptional appearance of new cars. The system inspects both purely decorative color applications and functional layers such as heating conductors in rear windows.

Screen printing in the automotive industry is subject to high demands in terms of both technical aspects and visual appearance. Glass prints such as brand logos or patterns only convey a quality promise when they are of flawless quality themselves; printed electrical traces and fine structures must be applied in uniform quality and without any disruptions in order to work properly. The PRINTSCAN system from ISRA VISION inspects printed, unbent glass for all relevant defects. Alongside pinholes in screen printing, these include missing points, points that have run together, ink splashes, and unwanted prints. The position and completeness of the logo within the pane is also checked. The system alerts the user of repeating defects and allows systematic defects to be differentiated from dirt particles.

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Equipment geared towards maximum quality effect

In addition to inspection, the system offers a multitude of useful tools: Logging and reporting tools help to produce validated quality and provide the basis for a deeper understanding of processes and root cause analysis. The graphical user interface shows real-time information of the print quality during ongoing production and visualizes the printed image as immediate process feedback for the user. New jobs can be set up in just a few minutes. An automatic warning signal alerts users to serious errors. Collecting, saving and recording of quality data can be assigned directly to a specific product or customer, thereby providing proof of quality for every job.

Cost benefits with 100% inspection: Early detection of (serial) faults

In automotive glass production, the use of PRINTSCAN brings immediate cost benefits. Defective semi-finished products are identified at an early stage, as they are inspected immediately after printing and before bending or lamination. This reduces production costs considerably and preserves resources. Since printing is performed inline with specified standards, the print quality is systematically increased, serial defects can be recognized and corrected very quickly and thus be avoided in the future. This makes PRINTSCAN the ideal solution for increasing output and optimizing processes.

ISRA VISION offers inspection and measurement solutions for every stage of the automotive glass production. Alongside PRINTSCAN, these also include POWERPLATE Inspect Automotive for detecting glass defects such as inclusions, scratches and edge defects in the

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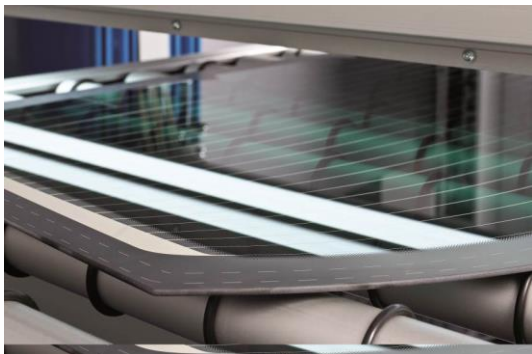
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sub-millimeter range. For process monitoring and data analysis, ISRA offers manufacturers from the glass industry and other sectors the ^FPROMI Production Management Intelligence Solution.

Images



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PRINTSCAN inspects printed, unbent glass – monitoring both purely decorative color applications and functional layers.



725_2.jpg

The use of PRINTSCAN means immediate cost benefits for customers in automotive glass production.

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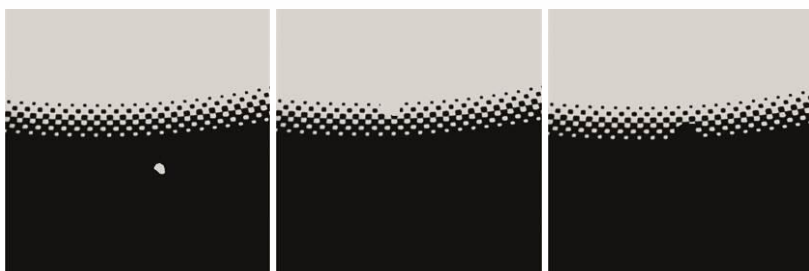


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100% inline screen print inspection for all relevant defects – pinholes, missing points, points that have run together and much more.

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