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Release: No. 749, 3/12/2019

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**Valid defect classification at every stage of the process reduces idle times and rejection rates**

**Full monitoring of the entire printing process: Integrated inspection architecture optimizes the workflow from make-ready to further processing**

It is easy to run up high costs when preparing and executing challenging print jobs. Setting up the printing press consumes material, working hours and running time, without producing any salable output. If defects occur during the printing process, this pushes the total throughput down even further; in the worst case scenario, expensive additional work is required. A fully integrated inspection architecture now ensures time-saving, resource-efficient printing processes. A combination of high-definition web viewing, automatic spectral color measurement and adaptive print inspection reduces the make-ready time and enables defect-free, high-yield, high-quality production from the very start.

The following scene can be observed in many printshops even today: an experienced worker checks the results of the setup phase manually; it is largely his experience and expertise that allow him to complete common steps like setting the color and register and calibrating the press pressure quickly and efficiently; the ideal result is only achieved after a few runs. With its what-you-see-is-what-you-get approach, the combination of the ViewSTAR, ColorSTAR and PrintSTAR systems supplements the printer's experience on the line, so that the required printed image is achieved at the very first attempt and an acceptable quality for customers is guaranteed throughout the process.

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Even for the very latest web viewing systems, reproducing the actual printed image realistically can be a challenge. Equipped with high-resolution cameras and fast-flashing LED lighting, ViewSTAR allows accurate representation of the printed image as part of the technology combination, even at high web speeds. Its camera and lighting components are designed for high robustness and minimal maintenance requirements. Because ViewSTAR does not use a zoom lens, it is less susceptible to wear and there is no need to set up the lens. Set up just once, the web viewing system thus makes permanently distortion-free, accurate reproduction possible for all subsequent print jobs.

No material sample is required for color checking with ColorSTAR. The system can be used together with other ISRA print assistance systems to measure absolute color values directly inline. It supplies the cameras in the PrintSTAR system with precise color information, enabling uninterrupted color checking regardless of the web speed or the number of points to be checked. The color values measured appear in a LAB diagram; deviations are clearly shown as the difference between the target and measured values.

The PrintSTAR print inspection system is adaptive and meets the highest standards – with a wide range of new assistants for challenging print defects such as hazing (Advanced Hazing Detection) and the streaks in the direction of movement that typically occur in gravure (Advanced Streak Detection).

Equipped with ISRA's custom designed and manufactured inspection components, as for example cameras, that are considered the market

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standard for high-quality inspection in other industries and easier operation via a touch-sensitive user interface modeled on latest Windows technology, PrintSTAR allows consistently high quality even at web speeds of up to 1000 m/min. The LED-based lighting ensures true reproduction of colors and low-maintenance operation. The image processor used can capture data streams of up to 3000 Mbit/s – every single pixel. Efficient algorithms capture changes in the printed image and differentiate reliably between permissible deviations (pseudo defects) and actual defects, so that almost all false alarms are prevented.

Decision-makers on the shop floor and in management can use the comprehensive data generated by the quality assurance systems during optical inspection to determine the quality and productivity of a production process. When aggregated, the data provides an image of how efficient entire lines and printshops are. The sheer quantity of data means that this knowledge is usually difficult to obtain. With Enterprise Production Management Intelligence (<sup>E</sup>PROMI), ISRA offers quality and yield management software that enables quick and efficient data analyses for well-informed decision-making at every level of the company. It is already successfully in use in various industries.

With the integrated combination of ViewSTAR, ColorSTAR and PrintSTAR and the higher-level software architecture <sup>E</sup>PROMI, ISRA offers continuous, fully-automated monitoring of the entire workflow from a single source. The systems make the printer's work easier and help to ensure that the quality standards that apply on the global market are met reliably – with short make-ready times and reduced rejection rates.



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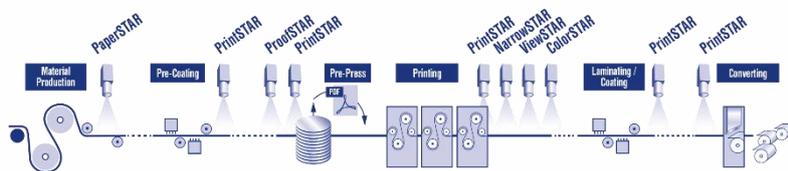
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**Images**



**Optimizing Workflow with Inspection STARS**

**749\_1.jpg**

Optimized inline workflow thanks to valid defect classification at every stage of the process reduces idle times and rejection rates.



**749\_2.jpg**

100% web inspection for zero-error printing quality with PrintSTAR.

NEWS  
PRESS NEWS

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**PRESS**

*News*

**ISRA**  
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**749\_3.jpg**

Inline web view in high image quality with ViewSTAR.

PRESS **N**EW

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