Quality classification, cut optimization, recipe management: Automatic optical inspection gives film manufacturers many ways to increase yield and efficiency

Yield maximization even after production: Beyond Inspection for inspection technology with new opportunities and maximum efficiency

Automated optical inspection assures film quality directly on the production line and during further processing. And the technology provides even more: Beyond Inspection add-ons multiply efficiency many times over. Users gain an efficient way to increase yield in their production retrospectively and make the use of automatic inspection technology even more profitable. ISRA VISION offers a comprehensive portfolio for its proven inspection system to reduce waste and increase process reliability and yield.

ISRA is a one-stop shop for film manufacturers. The Darmstadt-based specialist for surface inspection offers a broad range of Beyond Inspection solutions with a variety of software tools for simplified automatic inspection, effective use of the acquired production data and increasing the quantity of deliverable products even after production.

More control – directly at the line

Right during the production stage, the Beyond Inspection tools offer numerous benefits for the manufacturer. Inspection recipes can be managed centrally and created and updated offline, with no need to halt production. Production parameters, alarm conditions, classification parameters, etc. can be re-organized efficiently and new quality and
customer requirements can be implemented right away. Production lines with production requirements that change regularly, new products or low quantities stand to benefit especially from this software solution. Moreover, the inspection performance of the systems can be tested at any time, online and offline, to ensure outstanding inspection performance and a reliably high level of quality.

**Post processing: Added value with optimized data use**

Efficient data management enables various tools to increase the quantity of deliverable product effectively. After production, manufacturers have to decide what to do with products of impaired quality. During inspection, ISRA’s SMASH system generates all the data required to optimize the film cut – increasing the quantity of deliverable product and reducing waste. For this “Slit Optimizing”, the SMASH system communicates all relevant data directly to the saw or slitter. Another application uses the data on defect positions to repair them: The Rewind Manager allows users to inspect and process defects in the film during the winding process very quickly. Using the production data collected, the Rewind Manager finds the relevant position and stops the winding process fully automatically for manual interventions. Dirt and insects, for example, can easily be removed and smaller defects can be repaired. This turns a roll that might have been thrown away into a roll that can be delivered to the customer or to the next process step. ISRA’s efficient Quality Viewer also offers the option of comparing individual customer requirements with the quality status of a produced roll, so that customers receive products precisely to their specification. This improves total yield and enables resources to be used sustainably throughout the value chain. ISRA’s comprehensive portfolio also pro-
vides specific solutions for more detailed inspection of quality information or web monitoring from several workplaces, for example.

With the Beyond Inspection tools, production data provides its maximum added value. All that is needed is a SMASH system with up-to-date software and network access. Operating staff are trained while the add-ons are being installed. The ISRA Beyond Inspection solution enables users to improve the production workflow, filter relevant data and information, and ultimately increase transparency. A simple and efficient way to achieve defect-free, high-yield production and consistently high customer satisfaction.

Images

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Customers can easily generate tailor-made reports and statistics themselves – for optimized processes and sound decision-making on the shop floor and management levels
Comprehensive online statistics allow users to analyze defect causes even during inspection and to prevent them much more quickly.

Various reports on customer orders, production shifts and more give the production manager a detailed overview of the performance of his lines.
With the Rewind Manager, products that would otherwise be unsellable can be repaired and sold – for resource-efficient production and maximum yield.