Success Story

ISRA
VISION

Model AG relies on inspection for paper and print quality assurance, as well as transparency in value creation for carton board packaging

"ISRA VISION's inspection system allows us to monitor our production and being able to track all orders and meet our customers' demands.

Ulf Schröder, Model AG,
Lean Management, TPM, Lean Six Sigma Black Belt

The challenge

Due to the increasing quality demands on the global market, even renowned suppliers of state-of-the-art packaging solutions need to provide precisely documented quality. To ensure its products are of the highest quality and to use inspection data for the cause analysis of defects, the Swiss packaging producer Model AG specifically chose a system combination using optical inspection technology made by ISRA VISION. Key reasons for this decision included the ability to generate a precise defect classification and continuous logging of defects with a statistics report for each individual job.

Quality assurance along the entire process chain was a particular challenge as the company not only prints packaging, but also produces packaging materials itself. ISRA VISION's broad product range contained the perfect solution for this: CartonSTAR for the inspection of printed cardboard materials.

The solution

It was the exceptional reliability, along with the customers' special quality requirements, that was ultimately the decisive factor behind the company's decision to choose the combined inspection solution from ISRA. All defects, such as color spots, printing deviations, inclusions in paper or contaminations are reliably detected and classified by the systems.

CARTONSTAR INSPEKTION
Features

- **Real-time compensation algorithms (for material and press performance)**

- **Reliable defect classification according to pre-print and post-print process**

- **Dedicated algorithms to avoid false alarms**

- **Inline & continuous monitoring: add-on functionalities to monitor basic product/process parameters (color consistency, print-to-print register, print to board register)**

- **Add-on functionality to check printed content (PDF comparison)**

- **Add-on functionality to concentrate on points of interest (Masking of die-cut areas)**

- **Advanced processing using master resynchronization, review and re-classification utilities**

- **Integrated data mining and reporting tools**

- **Permanent feedback on fault classes, single or serial errors and color variations**

This allows faulty cardboard to be safely removed from the production process so that only flawless printing quality is delivered to the customer, thereby satisfying customer demands for zero-defect production. Damaged edges or tears on paper margins, in particular, can result in web breaks on the rewinder or corrugated board machine and lead to extensive downtimes. With the PaperMASTER, ISRA offers a perfect system combination of surface inspection (WIS: Web Inspection System) and WBM (Web Break Monitoring) tools which prevent these interruptions in good time.

All defects, such as color spots, printing deviations, inclusions in paper or contaminations, are reliably detected and classified by the systems.

Widespread acceptance from machine operators to quality managers

Along with precise defect detection, PaperMASTER and CartonSTAR also offer impressive classification performance. "The acceptance of the systems among all of our employees is outstanding – from machine operators to foremen and production managers to quality managers. The systems provide us with a reliable tool for identifying defects early on," says Ulf Schröder, Model AG. The order for an additional CartonSTAR system serves as further confirmation of Model AG's high level of satisfaction. The number of production shutdowns has been reduced significantly since the installation of the inspection systems. And thanks to the detailed logging, defects can be tracked at any time while customers can be provided with even better documentation of the quality processes.

The CartonSTAR inspection system is suitable for examination of post-print of corrugated board, laminating of pre-printed labels on board, pre-print processes of corrugated and solid fiber boxes.

Summary

CartonSTAR identifies incorrectly printed packaging, enabling it to be reliably removed from the production line and preventing it from being supplied to the customer. This prevents expensive complaints or claims from the customer. Furthermore, CartonSTAR is able to precisely classify defects, thus ensuring that only the relevant packaging is excluded and therefore preventing unnecessary waste. This feature is an absolute must for the professional use of printing inspection machinery. Model AG has ensured the continuous inspection of its entire production process by installing a combined paper and printed image inspection system from ISRA VISION – for the highest product quality and customer satisfaction.

ISRA VISION

Germany	France	USA	Russia	Korea
Tel.: +49 (6151) 948 0	Tel.: +33 (0) 1 39 09 32 00	Tel.: +1 (770) 449 77 76	Tel.: +7 (921) 055 63 30	Tel.: +82 (31) 806 973 00
Belgium	Italy	Brazil	P.R. China	Taiwan (R.O.C.)
Tel.: +49 (2366) 930 00	Tel.: +39 (0464) 490 603	Tel.: +55 (11) 347 611 32	Tel.: +86 (21) 685 002 88	Tel.: +886 (3) 250 01 48
Spain	UK	Turkey	Japan	India
Tel.: +34 (93) 839 70 32	Tel.: +44 (1442) 261 202	Tel.: +90 (212) 285 97 45	Tel.: +81 (45) 534 99 11	Tel.: +91 98 23 16 24 55

Optimize your ROI with the technology leader ISRA

info@isravision.com   www.isravision.com