CartonSTAR Corrugated Board Inspection

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VISION

Case study

Continuous quality control reduces production costs for printed corrugated board

The challenge

Printed corrugated board is becoming increasingly important as a packaging material. In particular due to the increase of online trade, which often depends on innovative packaging solutions made of corrugated board.

At its production facility in Mannheim, DS Smith produces various types of packaging and trays made of corrugated board for leading consumer goods manufacturers and industrial companies. These products are then printed utilizing a flexographic printing process. In order to meet the company's internal standards, print image monitoring was required. The installation of an inspection system was considered an absolute necessity for this. Furthermore, a 100% inspection of the printed image reduces the number of complaints. Single defective sheets with errors in the printed image are reliably detected and removed before further processing.

The solution

100% inline print inspection with CartonSTAR

- ■ **Two-camera solution with high-performance LED illumination**

- ■ **Reliably distinguishes between quality-relevant print errors and non-homogeneous texture on the corrugated board surface**

- ■ **Optimized production thanks to continuous quality and process control of the printed image**

- ■ **Contributes to a more sustainable use of resources**

"The special feature of the CartonSTAR system is that it differentiates between relevant and non-relevant defects, thus making a crucial contribution to the success of the system."

Daniel Malolepszy
Production Manager
DS Smith

Advantages

Differentiates between defects and non-homogeneous surface

CartonSTAR "ignores" the typical surface structure of corrugated board and reliably detects only quality-relevant defects – even at maximum speeds of 18,000 sheets per hour.

Defect classification for increased quality

The defect classifier function makes it possible to quickly create customer-specific quality requirement profiles and precisely configure classification processes in line with these requirements. This profile can then simply be called up and used again for follow-up jobs.

Sustainable use of resources

As well as improving print quality, CartonSTAR ensures that resources are used more sustainably.

Continuous feedback on the printed image and material quality

By documenting all events during the printing process, the inspection system enables verifiable quality management.

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