

INLINE DEFECT DETECTION

Detect glue and corrugated-process defects while the line is running

An inline inspection solution designed to identify bonding, alignment and process defects early enough for the production line to react.



INLINE INSPECTION

Controlled light + cameras inspect the board during production.

- Unglued / separation
- Misalignment / angle
- Process / material defects

Production challenge

During corrugated-board manufacturing and converting, bonding or alignment problems can appear between joined areas. If an unglued region, angular deviation or process defect is only detected after production, a large quantity of material may already be affected.

MCM solution

MCM developed an inline detector that combines controlled illumination, industrial cameras and dedicated image processing. Depending on the application, specialised illumination such as UV can be used to make adhesive or process features easier to identify. When a defect exceeds the acceptance criteria, the system can alert or interact with the line.

TECHNOLOGIES USED

Line-scan Vision

Controlled Lighting

UV (when required)

AI / Image Processing

Line I/O

Talk to an MCM engineer

Tell us what must be inspected or tested. MCM can review the application and define the most robust approach for your production conditions.

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COMMERCIAL CASE STUDY

From production challenge to repeatable quality decision

The system concept, test coverage and final acceptance criteria are tailored to the product, process and production environment.

What the system checks

- Unglued or partially bonded areas
- Misalignment and angular deviation
- Separation between joined regions
- Process or raw-material defects
- Configurable defect classification
- Production alert / line reaction

Customer value

- Detect defects earlier in the process
- Reduce production of non-conforming material
- Lower rework and downstream quality-control burden
- Help reduce customer returns and wasted raw material
- Maintain more consistent production quality

Typical MCM project path Sample / requirements → Feasibility → Engineering → Build & FAT → Installation → Support

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