



DIECUTCHEK

Ensuring perfectly die cut sheets

DieCutChek automatically inspects every die-cut sheet in real-time, catching quality defects before they leave your production line. The system verifies final sheet dimensions, validates die-cut features, detects loose scrap, and measures sheet skew at full production speeds up to 300m/min (980ft/min).

Defects are instantly flagged on the operator interface, enabling immediate corrective action and ensuring only quality sheets reach your customers.

How it works

DieCutChek mounts over the stacker conveyor after your die-cutting section. Multiple high-resolution line-scan cameras with integrated lighting capture images of each sheet as it passes through the inspection zone at production speed.

Advanced algorithms analyze each sheet in real-time, comparing measurements against job specifications. The touchscreen interface displays results immediately, highlighting any sheets outside tolerance. All data is stored for complete traceability and trend analysis.

Optional UV marking, feed stop, alarm and screen notifications allow defective sheets to be removed from the production stream

Features

- 0.5mm resolution: Detects defects as small as 3.0mm diameter
- Production speed operation: Inspects at speeds up to 300m/min
- Real-time sheet size SPC monitoring: Cp/Cpk tracking with automated trend alarming
- Complete data storage: Full traceability for quality reporting and analysis
- Works with die-cutters that have a flat section without shingling after the scrap removal section
- Utilizes a line scan camera that only requires approx. 2" in machine direction of view across to take images



Mounts over existing conveyor on die-cutters and flexo-folder-gluers



Inspects every die-cut sheet at full production speed



Intuitive ClearVision interface: Easy operation with visual defect mapping

Functions

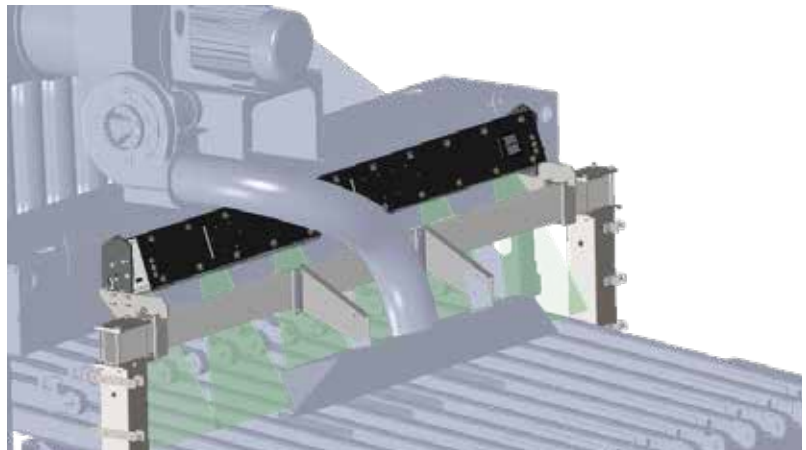
Real-time Statistical Process Control (SPC) monitoring tracks sheet dimensions continuously, calculating Cp and Cpk values to ensure your process remains in control. Automated trend-based alarming alerts operators to process drift before defects occur, while email escalation notifies management of quality issues requiring attention.

Real-time feedback at the die-cutting operation enables immediate adjustments, preventing production of out-of-spec sheets and reducing waste.



Components

- Line-scan cameras (qty based on web width)
- Integrated LED lighting
- Conveyor mounting frame
- Industrial touchscreen PC
- Photo-eye triggering system
- BoxChek control unit



For more information, visit valcomelton.com or contact your local Valco Melton representative.

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