



GAPCHEK

How it Works

GapChek takes images of the front and back of each corrugated box bundle in order to measure the manufacturer's joint folded gaps. Two cameras are mounted over the conveyor after the counter-ejector of the Flexo-Folder-Gluer. Both cameras are fixed in height and mounted above the tallest bundle. During the order setup, both cameras are servo-positioned right or left to line up with the approximate location of the gap in the bundle. One camera images the downstream rear face of the bundle to measure trailing edge gaps while the other camera images the upstream front face of the bundle to measure leading edge gaps.

A pair of lights near each camera illuminate the bundles during imaging. Gap measurements for each box are displayed on the monitor located near an optional bundle-ejection unit and boxes with gaps outside of tolerance are highlighted on the screen for removal.

The optional bundle ejection system removes bundles with defective gaps from the production line. An operator is then able to sort the defects out of the ejected bundle.



Mounts over existing flat top or roller style conveyor



Inspects every finished manufacturer's gap

Features

- Automatic camera positioning across conveyor based on panel dimensions
- Database storage of all measured boxes and bundles for trend analysis, corrective action and accountability
- Works with all flute sizes
- Can be used with tapered flaps up to 30mm apart
- Measures gap and skew for each box
- Works with up-fold and down-fold machines



Illustrates each individual gap measurements through familiar ClearVision user interface

Functions

GapChek works best when mounted after a bundle squaring device such as a strapper, which removes stack irregularities. Use GapChek in conjunction with an existing BoxChek 7 system for complete box inspection of glue, folding quality, and barcode or print inspection.

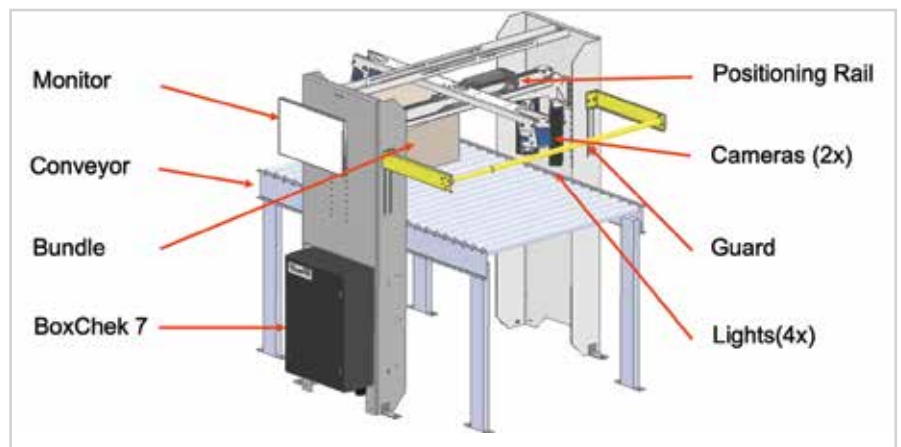
Because GapChek is imaging the completed box, there are no concerns about fold geometry changing after the box is imaged and squared.



If the optional BundleChek bundle ejection system is mounted very close to the GapChek system, GapChek may eject the bundles directly. Otherwise, bundles with defective gaps are marked for later downstream ejection by an optional BundleChek.

Components

- 4 Lighting elements
- 2 Cameras
- Additional BoxChek 7 Unit
- Frame over conveyor
- 2 Monitors, 1 by bundle ejector and one near main machine BoxChek 7



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