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Corrugated GmbH

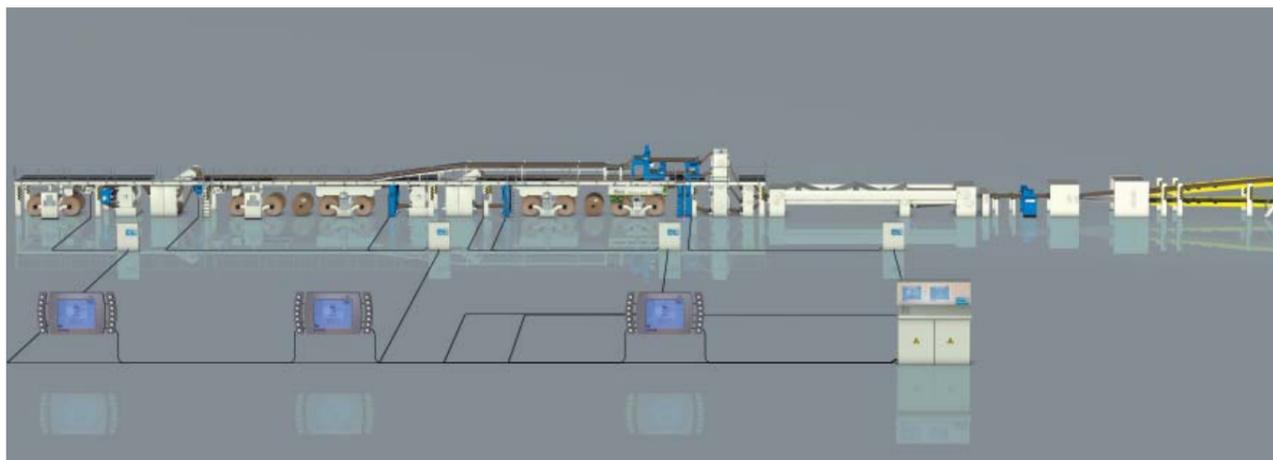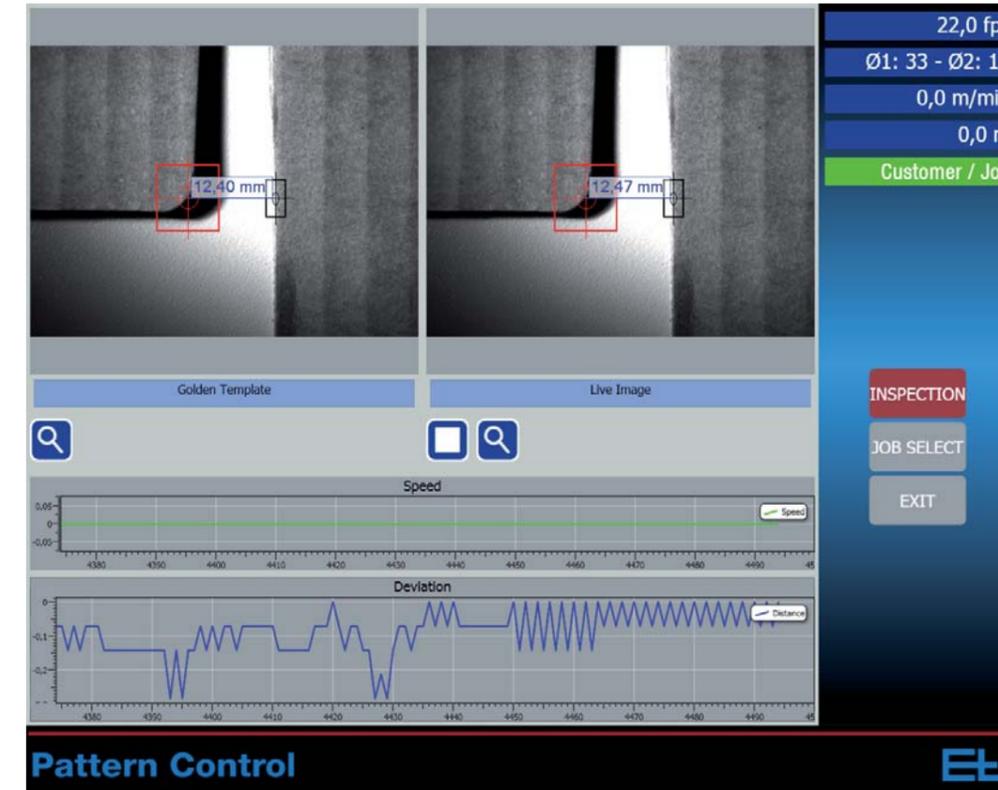# E+L Pattern Control System

Corrugated GmbH

E+L Contact:

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System Function

The E+L Pattern Control Inspection System is designed to automatically inspect complex shapes, print patterns, glue lines and die cut shapes to ensure repeatable quality of web or sheet processes.
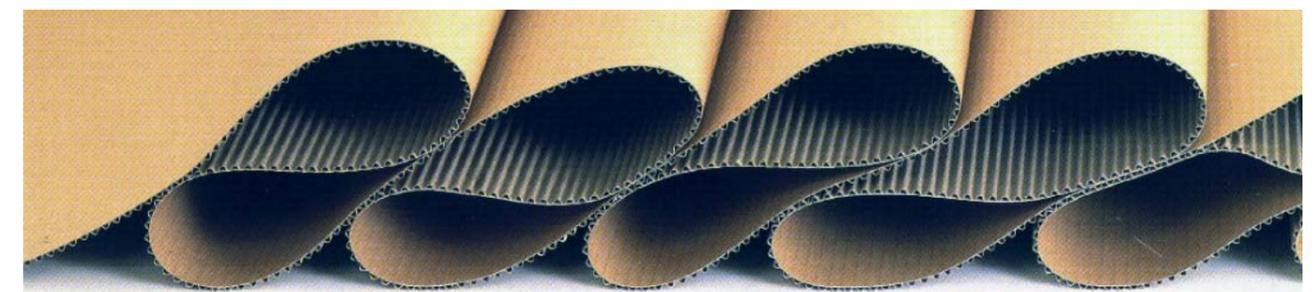
The high resolution color camera can be applied as a single fixed mounted sensing head, inspecting a defined area of interest or on a moving sensing support to enable the operation to sense area's across a wide web or sheet width.
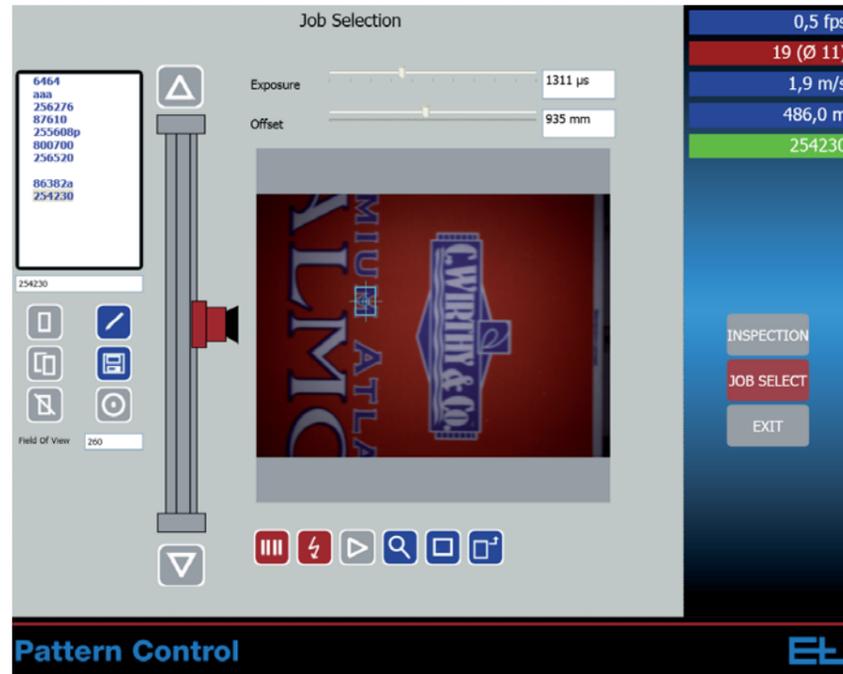
Multiple camera head design and control algorithm can be applied to ensure quality in different areas of the repeat and/or with different tolerance settings at the same time.

The control algorithm will compare the live scan with a pre-programmed master image (golden template) and log inaccuracies in reference to tolerances and thresholds that can be freely defined.

Outputs for automatic rejection devices, alarm horns or alarms lights or even machine control signals can be defined as needed.

Highlights

The E+L Pattern Control System

+ is the „super-sensor" when standard edge and line sensors reach their limits

+ finds complex shapes in webs or sheet processes

+ is designed for monitoring, logging and controlling running webs or sheet processes

+ can be integrated as into all E+L guiding control systems

+ is designed with state of the art camera technology and image processing algorithms

+ is designed for web inspection, web guiding, die cut control and register control

+ offers turn key solutions

Technical Data

+ High resolution - up to 1,3 mega pixels

+ 1/2" Progressive scan CCD

+ Global shutter (snapshot schutter)

+ Fast frame rate - max. 50 fps

+ Gigabit Ethernet interface

+ GigE Vision compliant

+ Long cables up to 100m on network cabling

+ Region of Interest readout (AOI partial scan)

+ Binning modes

+ Asynchronous external trigger and sync I/O

Typical applications

+ **Print Pattern Guiding**
  print marks, water marks, tamper tapes

+ **Sheet Guiding**
  Corrugated sheet processes (die cutter, FFG's, Laminators etc)

+ **Die Cut / Register Control**
  Corrugated sheet processes (die cutter, FFG's, Laminators etc)

+ **Glue Line Detection**
  absence/Presence of glue line, shapes and count of glue lines

+ **Print Skew Detection**