BOARD WATCHER

TecScan
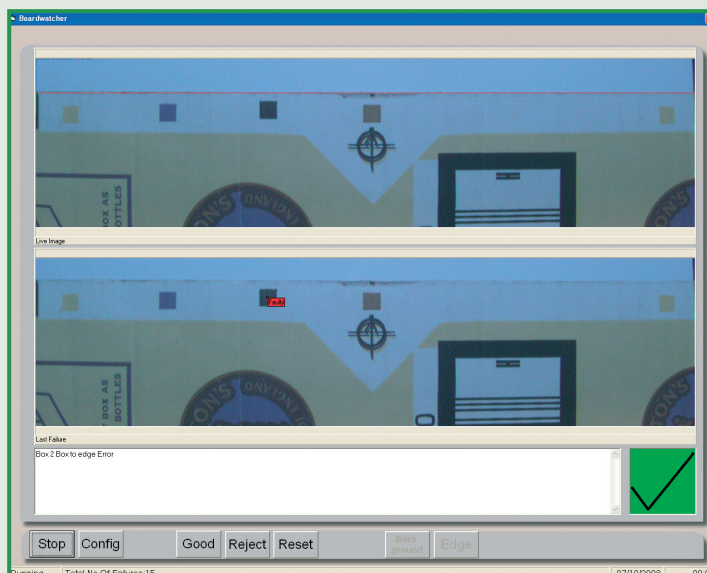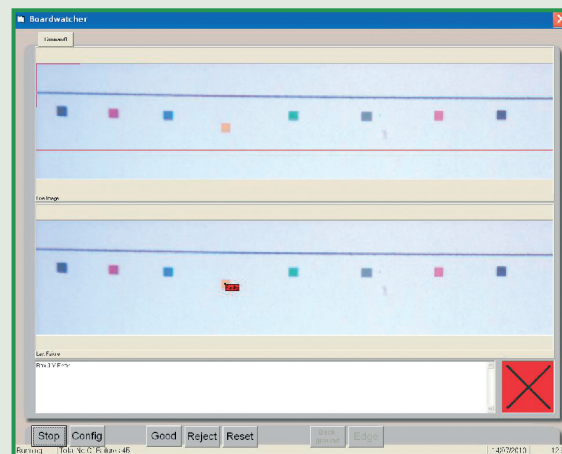print inspection

Machine Vision

Using the latest video technology, the 'Boardwatcher' inspection and monitoring system, ensures quality and integrity of many of the facets associated with corrugated products.

100% monitoring of :

- Registration die cut to print

- Registration colour to colour

- Registration liner to carton

- Missing colours

- And many other features

QMS
ISO 9001
REGISTERED FIRM

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100% inspection of corrugated cardboard cartons

BASIC SPECIFICATION
High speed intelligent camera with optics (model depending on speed of machine)
High frequency lighting (strobes)
Complete set of mounting brackets
Sensor & encoder for synchronization
Camera enclosed in industrial steel housing
Alarms both Beacon & audible devices
Tecscan smartlink for connection to a monitor
17inch monitor svga

TecScan Print Inspection • 10/11 St. Davids Ind Est
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BOARDWATCHER

SPECIFICATION

Through put 100% inspection:
at 180 boards per min [3 per second]

Board Sizes:
Unlimited width, unlimited length.

Maximum number of colours:
8 at 100% colour density.
Spot and process.

Resolution: Colour to colour registration [fit] resolution <0.25mm [resolution depends on press type].

On-line re-set: Operator / Management can re-set threshold control on-line, for side lay and circumferential to suit customer.

Engineer control of outputs:
i. Number of failed boards before the press is stopped.
ii. Audio and visual status of the beacons.

VDU Monitor: Displays current image of the fudicial blocks and also last failed image showing which colour or colours were out of tolerance.

Isolated relay contacts for operating:-
Eject gate, coloured status beacons.
The timing of the gate eject pulse can be adjusted to suit the press.

HARDWARE

System comprises:-

CAMERA
Fire wire machine vision high resolution camera.

COMPUTER
CE approved 19" rack mounted industrial enclosure
High performance PC
Tecscan copyright software

OPERATOR INTERFACE/VDU MONITOR
Touch screen monitor
Extremely simple touch screen operators interface
Extra slave monitors can be added

ILLUMINATION
Tecscan high speed strobe technology

TRAVERSE
Heavy duty manual traverse

SYNCHRONISING SENSORS
   i.   Shaft encoder supplied
   ii. Laser optic master sensor for reliable and accurate synchronisation

TRAVERSE LENGTH
To suit press width, camera enclosure carriage runs on lockable 'V' track.

OPTIONS
Other programs can be added such as:-

   i.   Traverse can be motorised for remote control

   ii. System can be mounted in RITTAL enclosure

   iii. Additional cameras

   iv. Extra slave monitors can be added

INSPECTION CRITERIA
   i.   **Colour to colour registration**
   ii. **Cross track colour to colour registration**
   iii. **Print to board registration**
   iv. **Orientation**
   v.   **Skew**
   vi. **Missing/feint colour**