

Off Line Flat Carton Print Verification System

CSPL 850 PRINT & VERIFY



Specific requirements for Global Serialisation as per GS1 in the Pharmaceutical Industry, require a Variable Data Printing solution. CSPL culture has been shown in our solutions, built with the standards of GMP. Data security is our prime focus, where we follow the guidelines of 21 CFR Part 11 and Barcode Reading Tools follow the ISO Standards of 15415 & 15416.

CSPL 1850 PV "Print & Verification System" is fast and reliable system for flat carton to fulfil all international requirements for serialization of track and trace. Not only a compact modular but also combines all necessary functions in a small footprint and seamlessly integrates into a new or existing production environment. Also a comprehensive system solution that gives you the flexibility to adapt necessary work flow.

Highlighting feature - it can handle normal as well as lock bottom flat cartons. The system is designed for offline operation but data can be transmitted on the fly hence parallel activity for further operation of carton filling and packing can be carried out without time loss.

Powerful front-end (GUI) software gives access control for Operator, Supervisor, Manager and Admin level to ensure the security and functionality.

Edge over advantages are eye opening to think beyond with key benefits like, CSPL 1850 PV is the only system that bring the benefits like rejection marking, Invisible marking.

Technical Specification

direction

Electrical Compliance to : CE directives. 21 CFR part 11 : Voltage: 230 VAC (<u>+</u> 10%)

connection Conveyor unit : Length 1900 mm Width 1210 mm dimensions : 50 / 60 Hz Frequency

Height 1680 ± 50 mm

Product position: Through sensor & encoder tracking Working height : 800 mm ± 50 mm

Machine : PLC Weight : 235 kg. (approx.) controller

head and camera positioning

: 10-50 m/min Input / Output : 18 Input & 12 Output **Belt speed**

Running : Left to right **Printing System**

Technology : Print heads TIJ 2.5 technology Cabinet : Stainless steel / Aluminium with key Print height : 12.7-25.4 mm / ½"-1" / 1 or 2 pen locked space for controller and reject bin

Resolution : Up to 600 dpi : Transparent acrylic cover equipped with Top cover

safeguard switch to stop the machine if **Print distance** : 0.5-5.0 mm dependent on ink and speed, opened during production

typically 0.5-2.0 mm (nozzle to print surface) Reject bin : Reject bin secured with key lock : Aqueous or solvent based ink cartridges Ink supply

Vision System

Resolution

Reject system : Mechanical rejection mechanism, No air Print head : Switch for cartridge detection

needed. features

Mountings : Integrated mounting bracket for print

Rejection : Mechanical flapper with actuator Camera & : Camera - 1.3 megapixel and Lens - 1.3 mechanism Lenses megapixel with 8 mm focal length (varies

on application demand) Rejection : TIJ 2.5 printer for rejection marking on Inspection area : 40 (H) x 60(W) mm (Depend on Selection marker rejected box

of Camera and Lens)

Emergency : Switch on front panel. Hardware

controlled emergency stop function operation Light : Integrated light Shielding Verification : Verification of printed text, Image

Feeder comparison, 1D & 2D codes EAN13,

Maximum : 300 x 300 mm Code128, PHARMACODE, Data Matrix, QR Code, PDF 417, AZTEC, CODE 39 product size & many more...

Minimum : 50 x 76 mm product size Grading : Quality of 2D code is determined grade

level between F and A (0-4). With a font-**Product** : 80 gsm to 500 gsm

based reference scheme grade level thickness between 0 and 100

Feeding speed : 100 m/min Qualification : In accordance with industrial standards, motor : DC motor printed items ISO/IEC 15415 and 15416

Data matrix : According to GS1 and ISO/IEC 16022 **Connection / Input & Output** standard

External : Main power, Air pressure, Up-stream **Text standard** : OCR-B font (possible to use other fonts) connections down-stream machine control signals, LAN

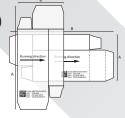
Production

Print position : Print from top and print on the product

moving direction

Carton size (min. - max.) 50-297 mm (leading edge)

76-297 mm (printed side)



Throughput : Up to 200 cartons per minute **Precise position** : "Q" Management for Cartons

Display : 17" Touch monitor

Software : CSPL 1850 GUI to control all parameters

and to comply 21 CFR Part 11

• Drive failure

Rejection failed

Safety door open

• Rejection bin sensor block

Queue missing

Interlocking

Queue control management for accepted carton & rejected carton. Up-stream/down-stream verification (Like cartonator and bundler). Errors & warning alarm log with time stamp for :

- Emergency stop
- Consecutive rejection
- No encoder pulse
- Product sensor block
- Accepted sensor block
- Printer low ink

Report Output

Batch summary report, Batch detail report, Audit trail report, Alarm log report, Sample report

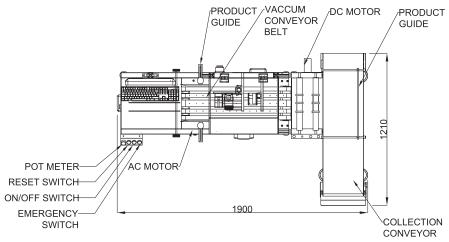
USP of the System

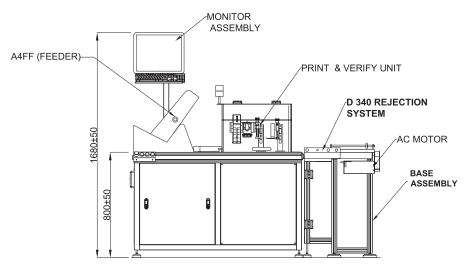
- Rejection marker
- Invisible printing

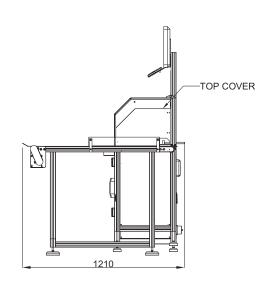
Convincing Highlights

- Solution design for lock bottom and flat cartons /cut labels
- Integrated collection conveyor for the smooth operation
- No compressed air required
- System support to all application identifier as per GS1 standard
- ISO standard verification of barcode
- In single pass, it can verify OCR, 1D, 2D, Pharmacode
- Elaborate and precise transport belt gives reproducible quality even at high speed up to 200 units/min
- Format change takes less than 5 minute
- Consecutive rejection control
- · Q' management for every carton enter in the system
- All errors and warning log with time stamp for audit requirements
- EPCIS compatibility
- Exhaustive validation documentation as per GAMP5
- Industry accepted yet customer required design of report generation
- Multiple country compliance
- 21 CFR Part 11 compliance

GA Drawing

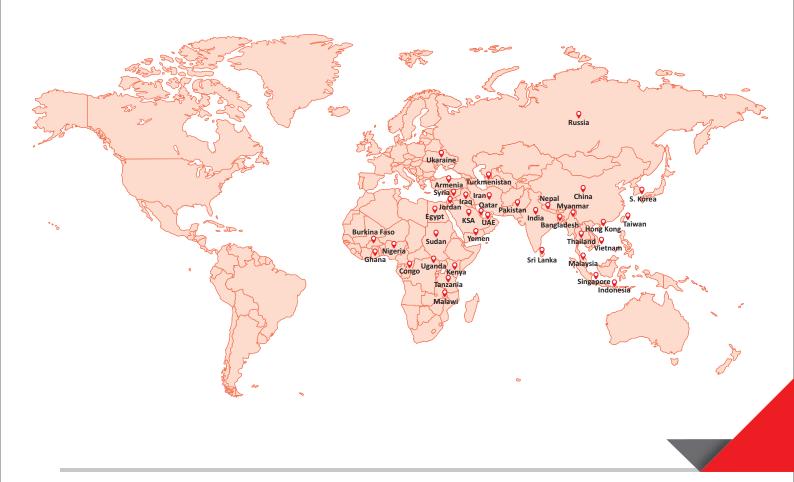








Global Presence





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