Bar Code Verification System

CSPL **1850** BV
BAR CODE VERIFY

CSPL **A4 FF**
FEEDER

CSPL **D 340**
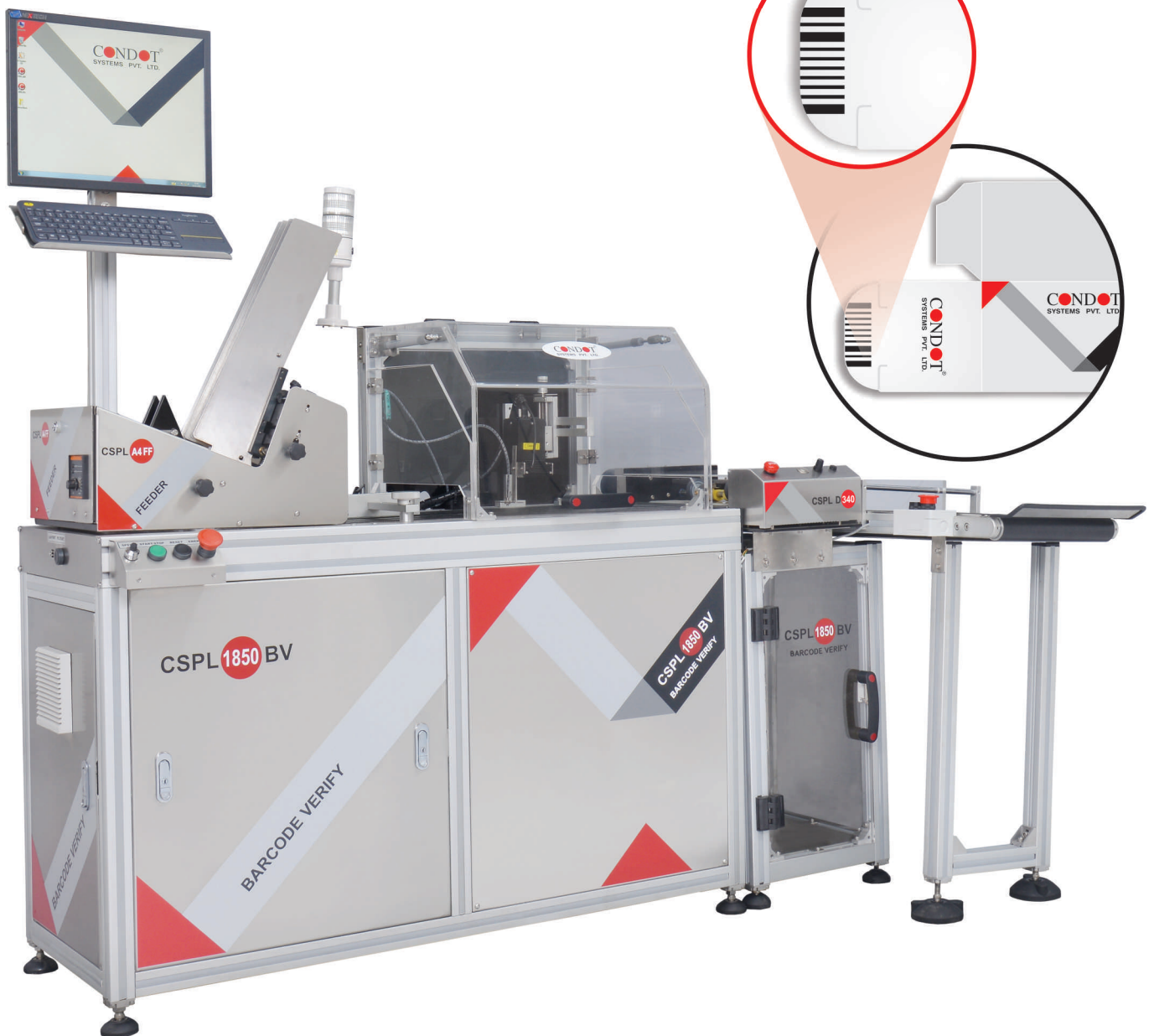
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Specific requirements for Global Serialisation as per GS1 in the Pharmaceutical Industry, require a Variable Data Printing solution. CSPL culture has been shown in our solutions, built with the standards of GMP. Data security is our prime focus, where we follow the guidelines of 21 CFR Part 11 and Barcode Reading Tools follow the ISO Standards of 15415 & 15416.

CSPL 1850 BV "Off line Bar Code Verification System" is a fast and reliable system for flat carton to fulfil all international requirements for Bar Code Verification system.

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 it verifies all types of barcodes like Pharma Code, 1D and 2D barcode which is pre-printed to verify there is no mix in cartons or barcodes are properly printed and readable. It rejects the false cartons with queue management so wrong carton should not go for production.

Technical Specification

Compliance to	:	CE directives. 21 CFR Part 11
Conveyor unit dimensions	:	Length 1900 mm Width 1210 mm Height 1680 ± 50 mm
Working height	:	800 mm ± 50 mm
Weight	:	230 kg. (approx.)
Belt speed	:	10-50 m/min
Running direction	:	Left to right
Cabinet	:	Non-corrosive pharma standard
Top cover	:	Transparent acrylic cover equipped with safeguard switch to stop the machine if opened during production
Reject bin	:	Reject bin secured with key lock
Reject system	:	Mechnaical rejection mechanism, No air Needed
Mountings	:	Integrated mounting bracket camera positioning
Rejection mechanism	:	Mechanical Flaper with actuator
Emergency operation	:	Switch on front panel. Hardware controlled emergency stop function

Feeder

Maximum product size	:	300 x 300 mm
Minimum product size	:	50 x 76 mm
Product thickness	:	80 gsm to 500 gsm
Fedding speed	:	100 m/min
Motor	:	DC motor

Connection / Input & Output

|		
External connections	:	Main power, Air pressure, Up-stream down-stream machine control signals, LAN
Electrical connection	:	Voltage: 230 VAC (± 10%)
Frequency	:	50 / 60 Hz
Product position	:	Through Sensor & Encoder tracking
Machine controller	:	PLC
Input / Output	:	18 Input & 12 Output

Vision System

Camera & lenses resolution	:	Camera - 1.3 megapixel and Lens - 1.3 megapixel with 8 mm focal length (varies on application demand)
Inspection area	:	40 (H) x 60(W) mm (Depend on selection of camera and lens)
Light	:	Integrated light shielding
Verification	:	Verification of pre-printed Image Comparison, 1D & 2D codes EAN13, Code128, PHARMACODE, Data Matrix, QR Code, PDF 417, AZTEC, CODE 39 & many more...
Grading	:	Quality of 2D code is determined grade level between F and A (0-4).
Qualification	:	In accordance with industrial standards, printed items ISO/IEC 15415 and 15416
Data matrix standard	:	According to GS1 and ISO/IEC 16022
Silent features	:	QC sampling

Production

Inspection position	:	Inspection from top
Carton size (min. - max.)		50-297 mm (leading edge) 76-297 mm (printed side)
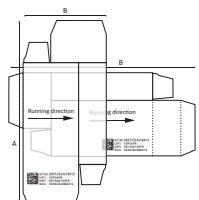
Throughput : Up to 200 cartons per minute

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

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
- Drive failure
- Consecutive rejection
- Rejection failed
- No encoder pulse
- Safety door open
- Product sensor block
- Queue missing
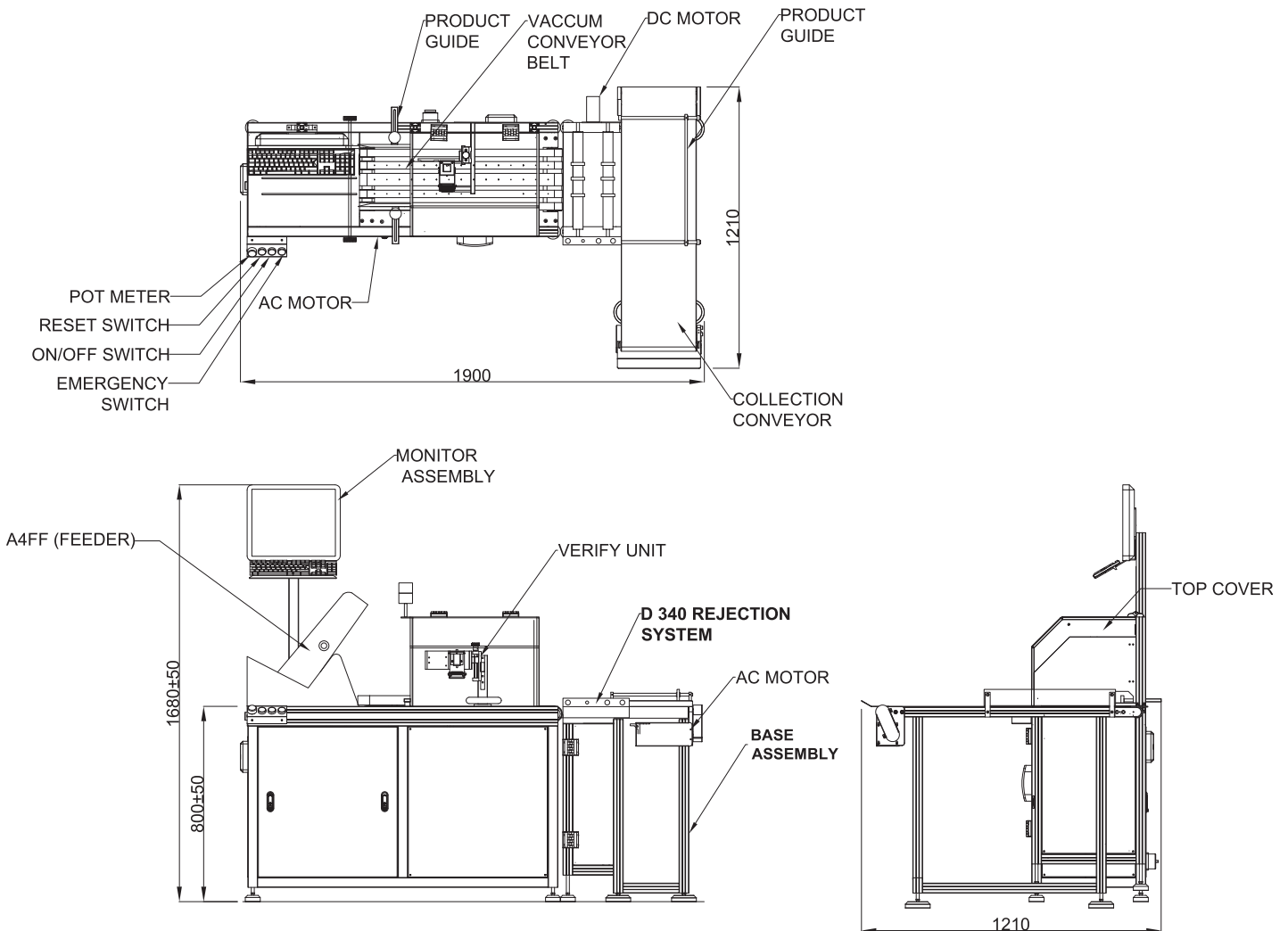- Accepted sensor block
- Rejection bin sensor block

Report Output

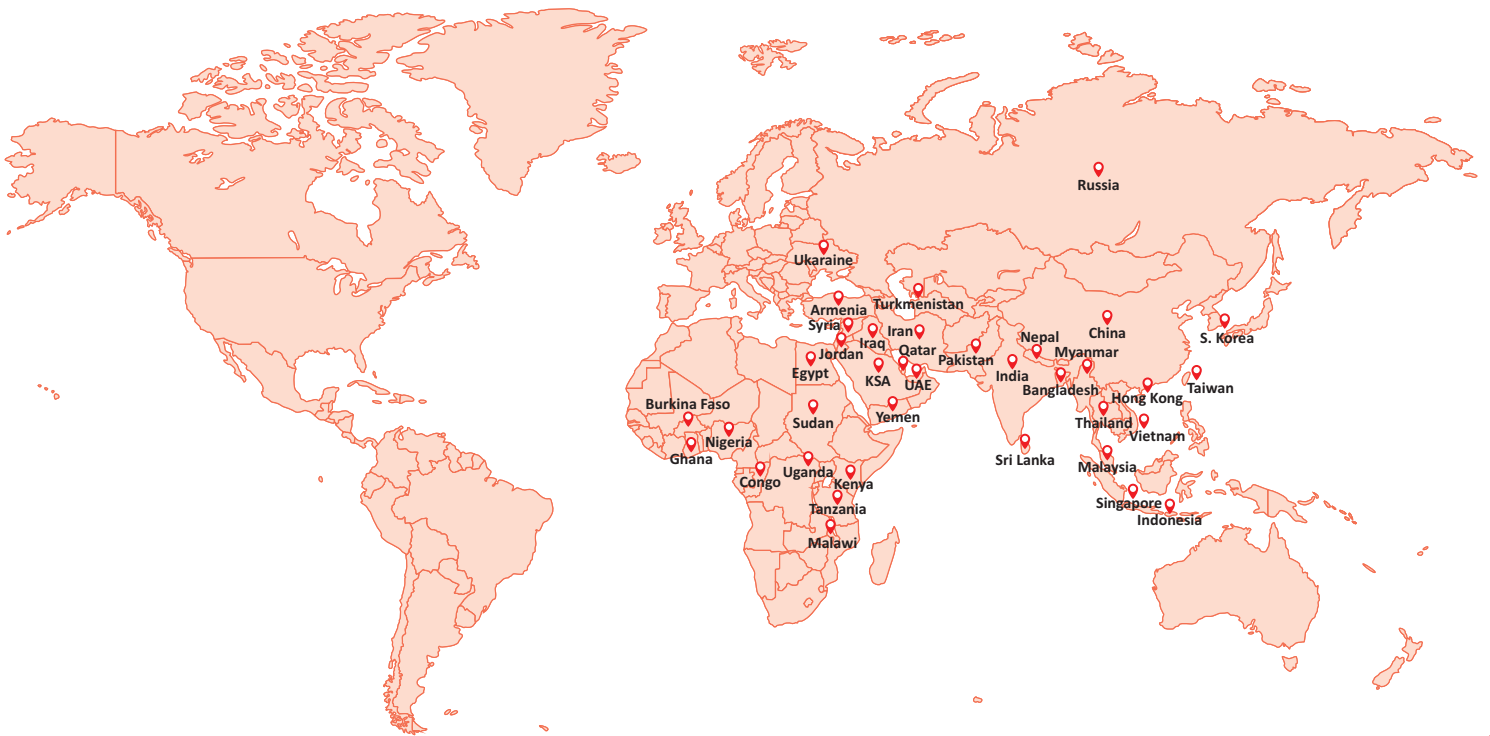Batch summary report, Batch detail report, Audit trail report, Alarm log report, Sample report

Convincing Highlights

- Solution design for lock bottom and flat cartons / cut labels / leaflet / outserts
- Integrated collection conveyor for the smooth operation
- No compressed air required
- 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
- Exhaustive validation documentation as per GAMP5
- Industry accepted yet customer required design of report generation
- 21 CFR Part 11 compliance

GA Drawing

Global Presence

Map markers: Russia, Ukaraine, Armenia, Syria, Turkmenistan, Iran, Jordan, Iraq, Qatar, Pakistan, Nepal, China, S. Korea, Egypt, KSA, UAE, India, Myanmar, Bangladesh, Taiwan, Burkina Faso, Sudan, Yemen, Hong Kong, Nigeria, Thailand, Vietnam, Ghana, Uganda, Kenya, Sri Lanka, Malaysia, Congo, Tanzania, Singapore, Malawi, Indonesia

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