

Bottle Aggregation Systems



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 1020 "Bottle Aggregation System" is a fast and reliable system to fulfil all international requirements for serialization of track and trace. Modular construction 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.

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 1020 is the only system that brings benefits like it aggregate bottle with single vision scanner. Auto teaching of the system will allow to operate, an ease of setting with just a click of the button. Different size of bottles can be taken care with tool less setting in less than 5 minutes. Through put is 100 BPM, with single vision scanner. Batch count and optional scalable, if need, to generate the co-relation with outserts / instruction manual glued on top of the bottles.

Technical Specification

Compliance to : CE directives. 21 CFR part 11

Machine dimensions : Length 1330 ± 50 mm
Width 780 mm
Height 1455 mm (100 ± 50 mm)

Conveyor belt width : 105 mm

Working height : 700 mm (100 ± 50 mm)

Weight : 125 kg (approx.)

Belt speed : 10-35 m/min

Running direction : Left to right

Cabinet : Stainless steel with key locked space for controller and reject Tray

Top cover : Transparent acrylic cover equipped with safeguard switch to stop the machine if opened during production

Rejection bin : Reject bin secured with key lock

Rejection system : Pneumatic push out device available

Mountings : Integrated mounting bracket for vision camera positioning

Emergency operation : Switch on front panel. Hardware controlled emergency stop function

Connection / Input & Output

External connections : Main power, air pressure, upstream downstream machine control signals, LAN

Electrical connection : Voltage : 230 VAC (± 10%)

Frequency : 50 / 60 Hz

Air pressure : 6 to 8 bar main supply

Product position: Through sensor & encoder tracking

Machine controller : PLC

Input / Output : 18 Input & 12 Output

Vision System

Camera & lenses resolution : 0.3 megapixel image base vision system

Inspection area : 40 (H) x 55(W) mm

Light : Inbuilt multi color integrated light shielding

Verification : 1D & 2D codes EAN13, Code128, Pharmacode, Data Matrix, QR Code, PDF 417, CODE 39 & many more...

Data matrix standard : According to GS1 and ISO/IEC 16022

Production

Reading position : 360° +

Bottle size (min. - max.)

Diameter : 30 - 110 mm

Height : 70 - 225 mm

Throughput : Up to 100 bottles per minute (Depends on bottle size)

Precise position : "Q" Management for bottle

Display : 17" Touch monitor

Software : CSPL 1020 GUI to control all parameters and to comply 21 CFR Part 11

Interlocking

Queue control management for accepted bottle & Rejected bottle. Up-stream/down-stream verification (Like labeling machine and bundler). Errors & warning alarm log with time stamp for :

- Emergency stop
- Drive failure
- Consecutive rejection
- No downstream signal
- No upstream signal
- Rejection failed
- Traffic regulation sensor
- No encoder pulse
- Safety door open
- Product sensor block
- Queue missing
- Accepted sensor block
- Rejection bin sensor block
- Low air pressure

Report Output

Batch Summary Report, Batch Detail Report, Audit Trail Report, Alarm Log Report, Sample Report

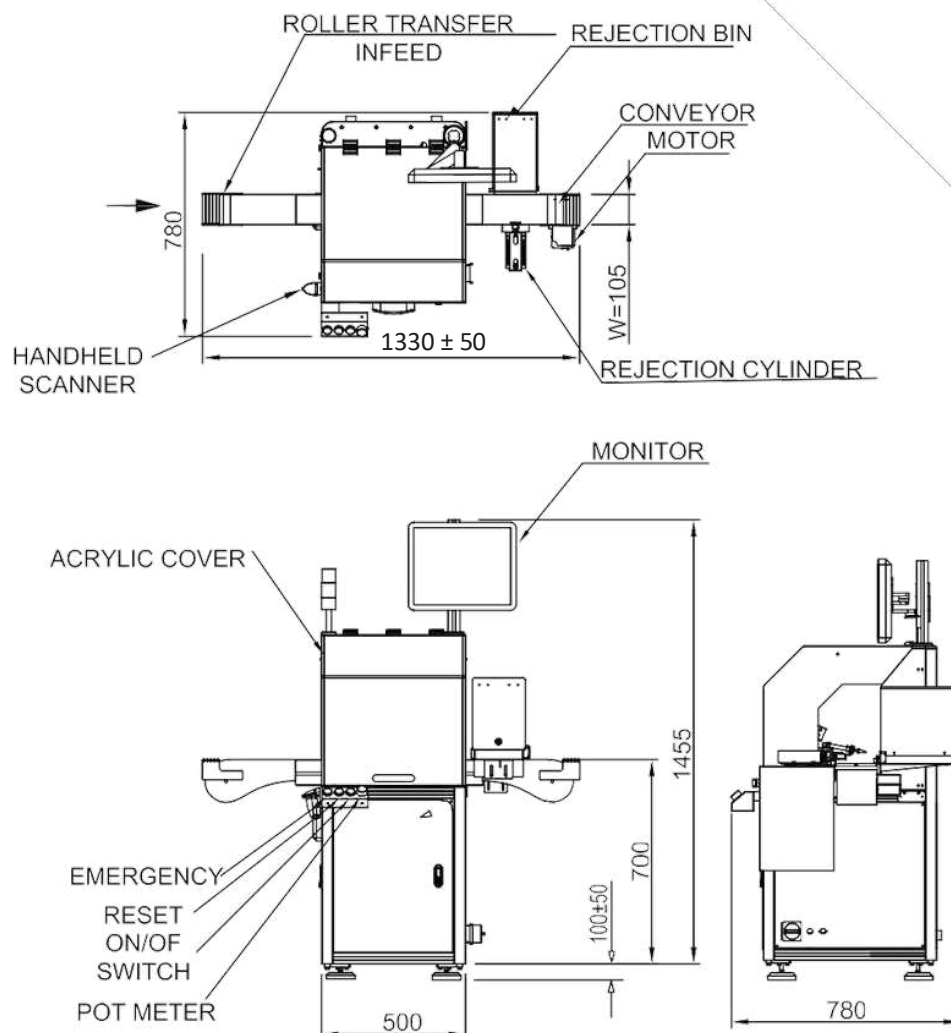
USP of the System

Single vision base camera system for 360° barcode reading

Convincing Highlights

- Single vision system with inbuilt light source
- No need of complex 6-8 camera systems and high-end processor for the same
- Product change takes less than 5 minute
- No need to re-calibrate barcode at change over
- Auto focus for all the size of bottles
- Traffic regulation avoid congestion
- Configurable recipe counts
- Manual & Auto mode for aggregating recipe counts
- Visual indication on every recipe completion
- Secured recipe count to eliminate wrong bottle goes in wrong shipper
- Ambient light source does not effect the readability of barcode
- No need to generate co-relation between label of the bottle and outserts or No need of additional printer at the bottom of the bottle
- System have provision for rejection / acceptance verification of bottle to ensure GxP
- EPCIS Compatibility
- Exhaustive validation documentation as per GAMP5
- Industry accepted yet customer required design of report generation
- 21 CFR Part 11 compliance
- Consecutive rejection control

GA Drawing



Global Presence



CONDOT[®]
SYSTEMS PVT. LTD.

Head Office

Unit No. 122, Niraj Indl. Estate, Off. Mahakali Caves Road,
Andheri (E), Mumbai - 400 093. Phone : +91 - 22 - 2687 7023
Fax : +91 - 22 - 2687 9078 email : cspl@condotsystems.com
web : www.condotsystems.com

MAPTECH

SMART CODING SECURE TRACKING

No 17 : VGP Victory House, Anna Salai (Mount road), Chennai - 600 002
Tamilnadu, India Phone : 044 28551245 Email : Sales@maptechtools.com
Mob : +91 9841226105 , +91 7010528897
Web : www.maptechtools.com