

High Speed Bottle Aggregation Systems

CSPL 2020



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 2020 “Dual channel 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 the 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 2020 is the only system that brings benefits like it aggregates bottles with a 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 200 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	Air pressure	: 6 to 8 bar main supply
Conveyor unit dimensions	: Length 1605 mm Width 1915 mm Height 1745 mm	Product position:	Through sensor & encoder tracking
Conveyor belt width	: 105 mm	Machine controller	: PLC
Working height	: 800 mm ± 50 mm	Input / Output	: 36 Input & 24 Output
Weight	: 200 kg (approx.)	Vision System	
Belt speed	: 10-35 m/min	Camera & lenses resolution	: 0.3 megapixel image base vision system
Running direction	: Left to right	Inspection area	: 40 (H) x 55(W) mm
Cabinet	: Stainless steel with key locked space for controller and reject Tray	Light	: Inbuilt multi color integrated light shielding
Top cover	: Transparent acrylic cover equipped with safeguard switch to stop the machine if opened during Production	Verification	: 1D & 2D codes EAN13, Code128, PHARMACODE, Data Matrix, QR Code, PDF 417, CODE 39 & many more...
Reject bin	: Reject bin secured with key lock	Data matrix standard	: According to GS1 and ISO/IEC 16022
Reject system	: Pneumatic push out device available	Production	
Mountings	: Integrated mounting bracket for vision camera positioning	Reading position	: 360° +
Emergency operation	: Switch on front panel. Hardware controlled emergency stop function	Bottle size (min. - max.)	
Connection / Input & Output		Diameter	: 30 - 110 mm
External connections	: Main power, air pressure, upstream downstream machine control signals, LAN	Height	: 70 - 225 mm
Electrical connection	: Voltage: 230 VAC (± 10%)	Throughput	: Up to 200 bottles per minute
Frequency	: 50 / 60 Hz	Precise position	: “Q” Management for bottle
		Display	: 17” Touch monitor
		Software	: CSPL 2020 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

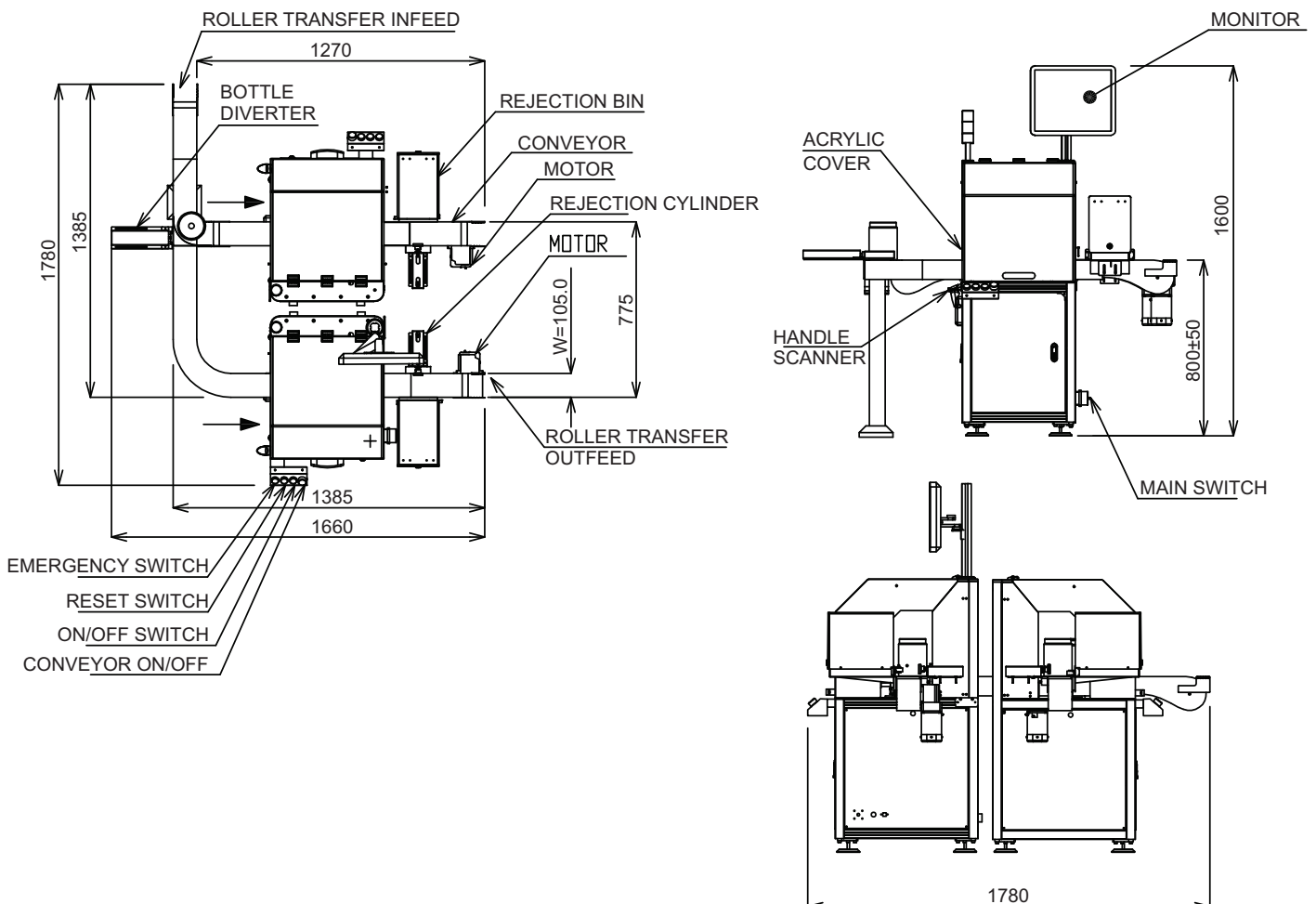
USP of the System

Single vision base camera system for 360° barcode reading.

Convincing Highlights

- System is designed with 2 track by using the diverter logic to achieve the optimum speed
- Single vision system with inbuilt light source each side
- 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



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