

Thinking...

High Speed Bottle Aggregation System

Your QUEST ends here

CSPL CAM 7 AGGREGATION



CSPL CAM7 "Bottle Correlation System" is a fast and reliable system to fulfill all Global requirements for serialization of Track & Trace. It's a servo driven system to accommodate various diameter and height of bottles.

**Thoughts brought to
reality by CONDOT®**

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CSPL CAM7

High Speed Bottle Aggregation System

Specific requirements for Global Serialisation as per GS1 in the Pharmaceutical Industry require a Variable Data Printing solution. CSPL culture is exhibited 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 by following the ISO Standards of 15415 & 15416.

CSPL CAM7 “Bottle Correlation System” is a fast and reliable system to fulfill all Global requirements for serialization of Track & Trace. Modular construction combines all necessary functions in a small footprint and seamlessly integrates into a new or existing production environment. A comprehensive system solution that gives flexibility to adapt necessary work flow.

Technical Specification

Compliance to : CE directives. 21 CFR part 11

Machine dimensions : Length 1330 ± 50 mm
850 mm
Height 1375 mm (100 ± 50 mm)

Conveyor belt width : 115 mm

Working height : 750 mm ± 50 mm

Weight : 140 kg (approx.)

Belt speed : 15-35 m/min

Running direction : Left to right

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

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

Rejection bin : Rejection bin secured with key lock

Rejection system : Pneumatic push out device available

Mountings : Auto 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, downstream machine control signals, LAN

Serialization data printed on the label and 2D Helper code on top side of outserts or direct printing on bottom of the bottle, get associated with GS1 data matrix code printed on applied label. Helper code is used for the Manual or Automatic Aggregation (Bundling, Case Packing).

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

CSPL CAM7 is servo driven system to accommodate various diameter and height of bottles. Since it is a software controlled system, the changeover for different size of bottles is prompt and accurate. Through put is up to 250 BPM.

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 : 24 Input & 16 Output

Vision System

Camera & lenses : High-resolution 7 camera image base vision system

Inspection area : 40 mm (H) x 360 degree

Light : Inbuilt integrated light shielding

Verification : Data matrix, QR code & many more...

Data matrix standard Production : According to GS1 and ISO/IEC 15415

Reading position : 360°

Bottle size (min. - max.) : **Diameter** : 30 - 120 mm
Height : 70 - 225 mm

Throughput : Up to 250 bottles per minute (Depends on bottle size)

Precise position : “Q” Management for bottle

Display : 17” Touch monitor

Software : CSPL CAM7 GUI to control all parameters and to comply 21 CFR Part 11

Interlocking

Queue control management for accepted bottle & Rejected bottle. Down-stream verification errors & warning alarm log with time stamp for :

- Emergency stop drive failure
- Consecutive rejection no downstream signal
- Rejection failed traffic regulation sensor
- No encoder pulse safety door open
- Product sensor block queue missing
- Rejection bin sensor block low air pressure

Report Output

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

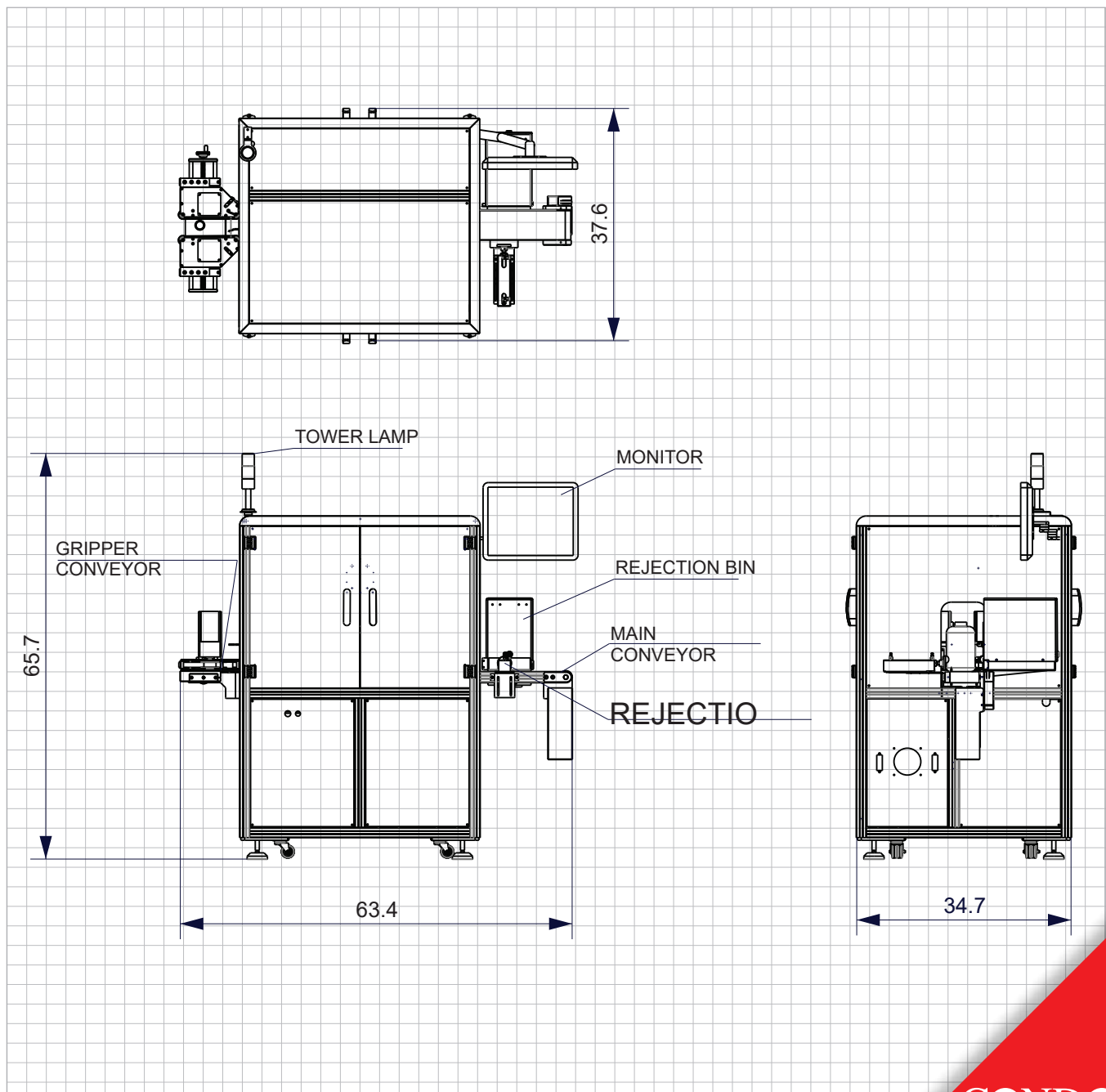
USP of the System

Tools free - Digital setting for different size of bottle

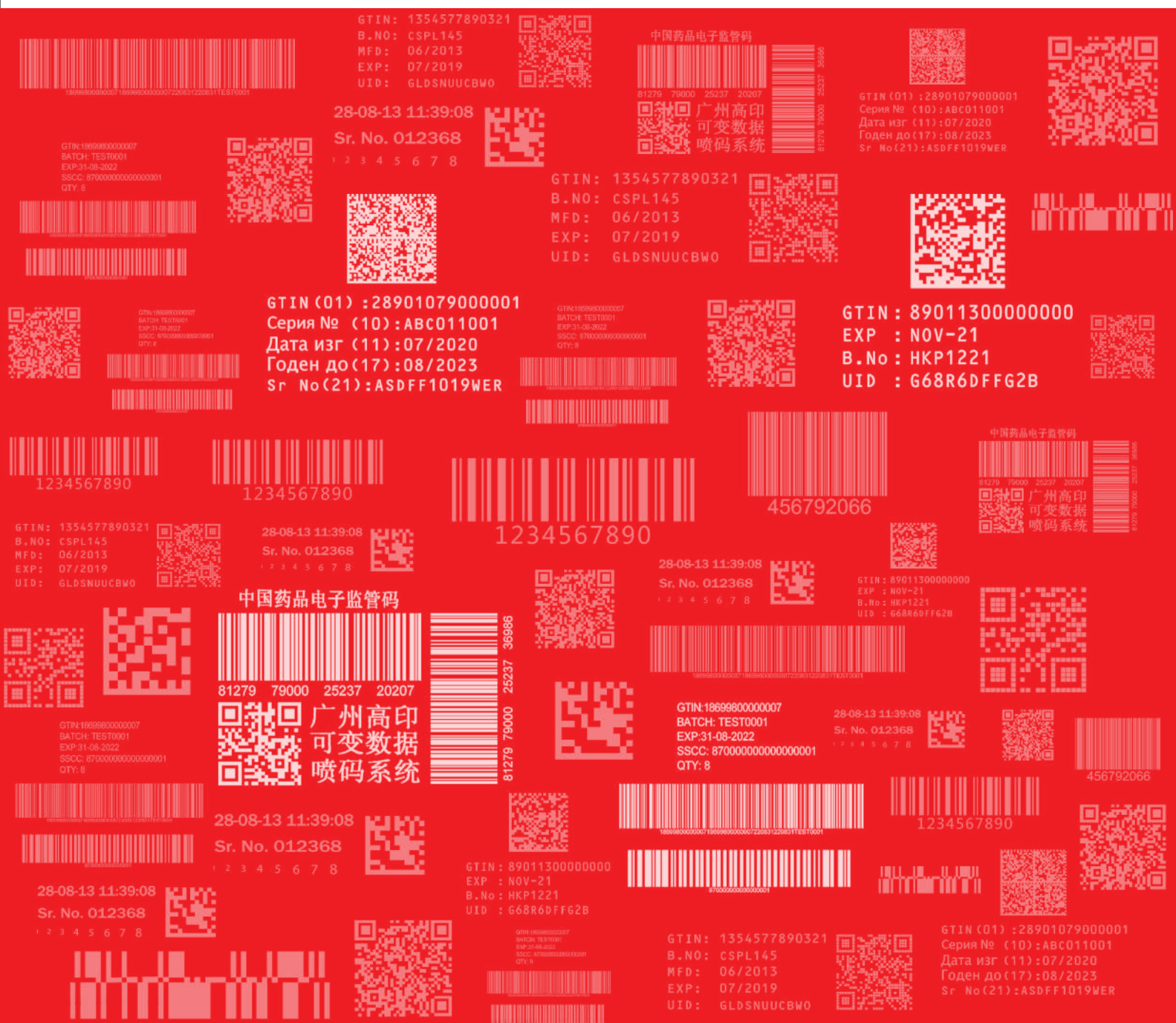
Convincing Highlights

- Product change takes less than 2 minute
- No need to re-calibrate barcode at change over
- Auto focus for all the size of bottles
- Traffic regulation avoid congestion
- Configurable recipe based on bottle size
- Ambient light source does not affect the readability of barcode
- Exhaustive validation documentation as per GAMP5
- Industry accepted yet customer required design of report generation
- 21 CFR Part 11 compliance
- Consecutive rejection control
- Infeed control

GA Drawing



Thoughts Fulfilled



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