

# Aggregation System (Up to 3 Side)

CSPL 1070  
AGGREGATION



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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 1070 AGGC "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 software (GUI) gives access control for Operator, Supervisor, Manager and Admin level to ensure security and functionality.

Edge over advantages are eye opening to think beyond with key benefits like it aggregates Shrink bundle, BOPP Wrap Bundle, 3 Ply Packing on the fly from same system. It has options to aggregate from all 3 sides of the bundles. The Special lighting of the system takes care of reflectivity of shrink or BOPP materials and still functions on the fly aggregation.

## Technical Specification

<b>Compliance to</b>	: CE directives. 21 CFR part 11
<b>Conveyor unit dimensions</b>	: Length 1110 mm Width 970 mm Height 1800 ± 50 mm
<b>Working height</b>	: 800 mm ± 50 mm
<b>Weight</b>	: 150 kg. (approx.)
<b>Belt speed</b>	: 5-30 m/min
<b>Running direction</b>	: Left to right
<b>Cabinet</b>	: Acrylic with key locked space for controller and reject bin
<b>Top cover</b>	: Transparent acrylic cover equipped with safeguard switch to stop the machine if opened during production
<b>Reject bin</b>	: Rejection bin secured with key lock
<b>Reject system</b>	: Air pressure box blow-out for boxes up to 250 g. Pneumatic push out device available for >250 g products
<b>Mountings</b>	: Integrated mounting bracket for print head and camera positioning
<b>Emergency operation</b>	: Switch on front panel. Hardware controlled emergency stop function

### **Connection / Input & Output**

<b>External connections</b>	: Main power, air pressure, upstream downstream machine control signals, LAN
<b>Electrical connection</b>	: Voltage: 230 VAC (± 10%)
<b>Frequency</b>	: 50 / 60 Hz
<b>Air pressure</b>	: 5 to 7 bar main supply
<b>Product position:</b>	Through sensor & encoder tracking
<b>Machine controller</b>	: PLC
<b>Input / Output</b>	: 18 Input & 12 Output

### **Vision System**

<b>Camera &amp; lenses resolution</b>	: Camera - 2/3.2 megapixel and Lens - 1.5/2/5 megapixel with 8 mm focal length (No's of camera varies on application demand)
<b>Inspection area (FOV)</b>	: 200 (H) x 300(W) mm (Depend on selection of camera and lens)
<b>Light</b>	: Integrated light shielding
<b>Verification</b>	: 1D & 2D codes, Code128, Data Matrix, QR Code, PDF 417, CODE 39, & many more...
<b>Data matrix standard</b>	: According to GS1 and ISO/IEC 16022
<b>Multiple barcode reading</b>	: Within FOV upto 200

### **Silent features**

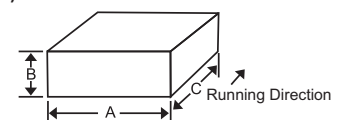
- QC sampling
- De-aggregation
- Replace UID
- Re-print label
- Redundancy scanner

### **Production**

<b>Reading position</b>	: Reading from either front / back / top or multiple in combination. (option can be selected)
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### **Carton size (min. - max.)**

- A: 50-300 mm
- B: 18-250 mm
- C: 50-300 mm



<b>Throughput</b>	: Up to 100 bundles / minute or 300 cartons / minute (Depend on carton and bundle size)
<b>Precise position</b>	: "Q" Management for cartons / bundle
<b>Display</b>	: 17" Touch monitor
<b>Software</b>	: CSPL 1070 AGGC 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). Error & Warning alarm log with time stamp for :

- Emergency stop
- Drive failure
- Consecutive rejection
- No downstream signal
- No upstream signal
- Rejection failed
- 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

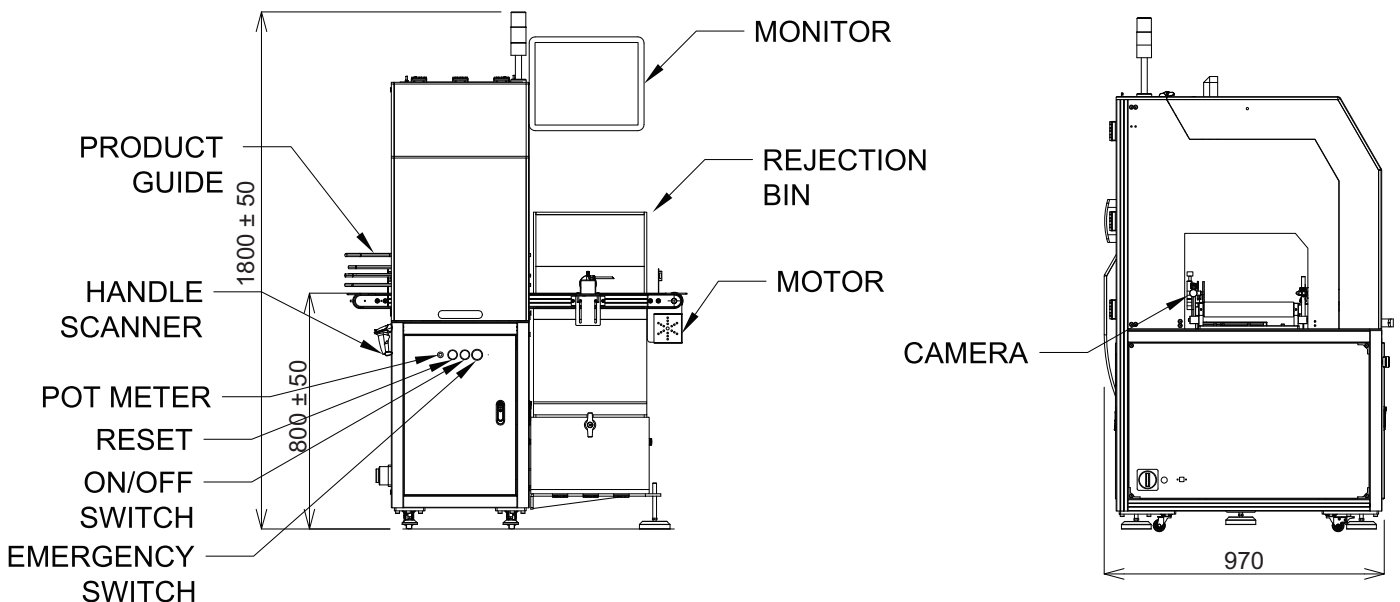
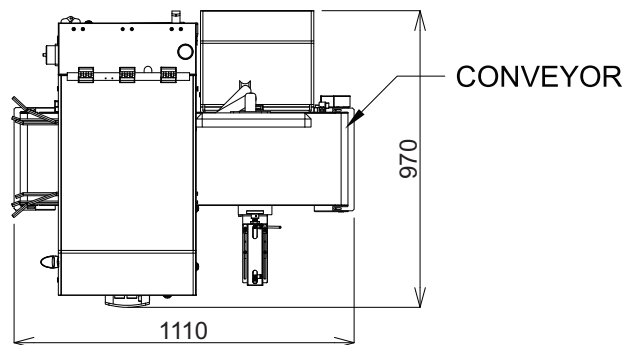
**USP of the System**

- Online aggregation
- Shrink bundle aggregation possible

**Convincing Highlights**

- Multiple camera support to cater the different types of packing style
- Simple, flexible, ergonomic concept design for online on the fly aggregation
- Camera is capable to decode multiple barcode from shrink / BOPP / banded bundles
- Camera is capable to decode the barcode from outer box
- System is flexible enough to aggregate recipe from 3 sides of the bundle
- Product change takes less than 5 minutes
- Consecutive rejection control
- EPCIS compatibility
- Exhaustive validation documentation as per GAMP5
- Industry accepted yet customer required design of report generation
- 21 CFR Part 11 compliance

**GA Drawing**



## Global Presence



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