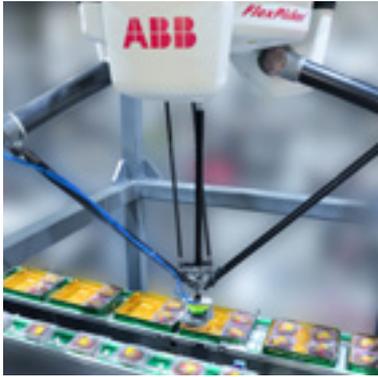


Colamark

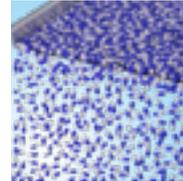


Packaging

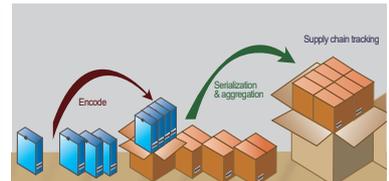


Counting

Labeling



Serialization



On Target Solutions



Introduction



Colamark is a packaging solution provider specialised in pharmaceutical and healthcare industries. Our pharmaceutical turnkey solutions can trace back to our first launch of servo labelling head to China Pharmaceutical Tracking project under www.drugadmin.com in early 21st century.

Colamark works closely with international partners to develop innovative solutions of Vial and Prefilled Syringe Packaging Line, Capsule / Tablet Filling Line and Product Track & Trace solution to our customers. Our solution bases on latest development of IOT technologies, servo control, camera vision, robotic arm and on-line data capture devices to enable customers to manage and analyze the production data.

With product serialization, brand owner can trace their products from shop floor to consumers' hand. Colamark has a team of 300 professions to support our customers and partners. We produce more than 30+ packaging lines and 300+ individual machines each year.

Colamark won several innovation awards of syringe / safety device assembling machine and camera vision counting from the government, which demonstrates that our solution is leading the industry. Colamark also works closely with industrial experts to establish the standard of new industrial application.

Our On-Target Solution helps our customers to achieve their goals.



Remarks:
Throughout this brochure, the icons next to the product pictures indicate applicable industry of the equipment (icon key as on the right)

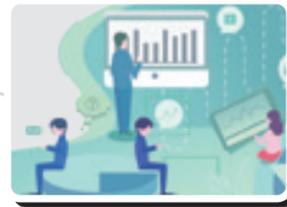
- Personal care industry
- Pharma industry
- Food & beverage industry
- Printin & Labeling & serialization

Intelligent Production

Results



Enhance Visualization



Eliminating Information Isolation



Channel Loyalty



Market Share



Customer Loyalty

Application



Decode



Barcode Reading



Visual Camera



Weigh Checker



RFID



Robotics



PC



Smart Phone

Encode



Labeling



Inkjet



Laser Marking



RFID



Print & Apply



Temperature Control



Verification Code

Industries

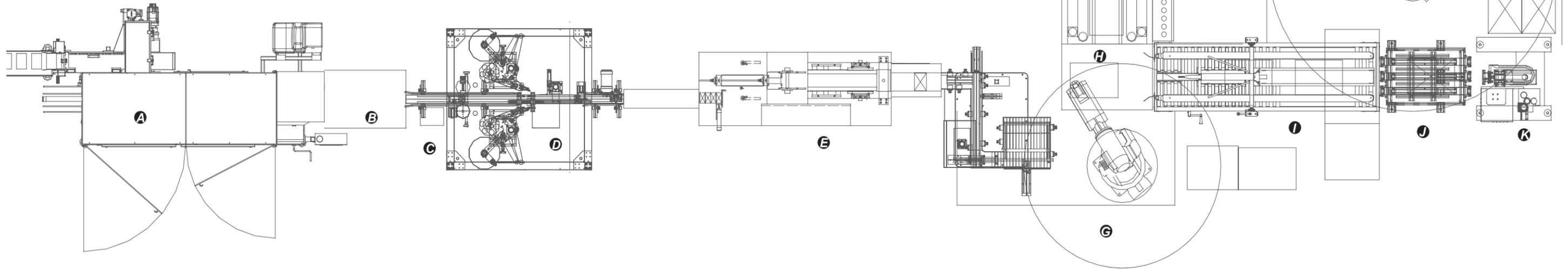


Partners



Robotic Packaging with Supply Chain Management Capability

Colamark partners with world leading robot providers to offer the complete automatic packaging solution from Level 1 to Level 5 product track and trace features along with supply chain management. Our track and trace solution is equipped with intelligent camera which captures the embedded product finger print product ID. 5G mobile network gives help to verify the products off-line and on-line, in order to protect the customers rights and brand owners interests.



A Cartoning



B Checkweigher



C Laser Marking



D Tamper Evident Labeling



E Film Overwrapping



F Case Erection



G Robotic Casing



H Scanning



I Case Sealing



J Checkweigher



K Print and Apply

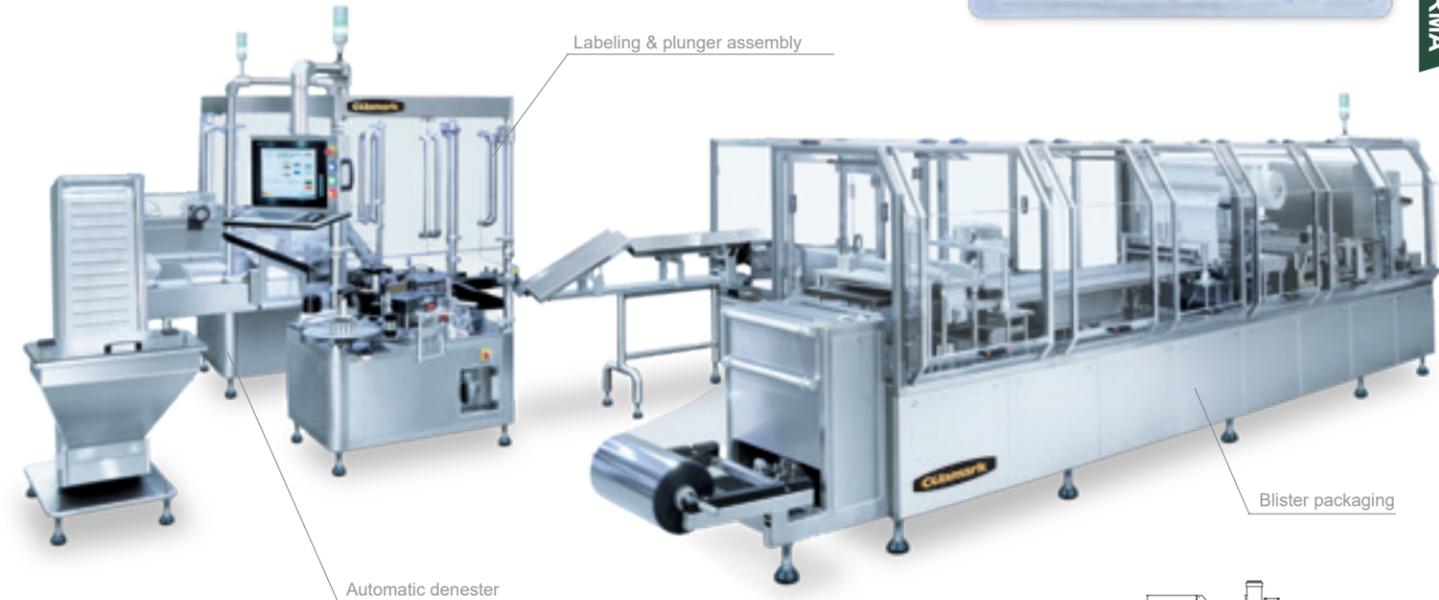


L Robotic Palletizing

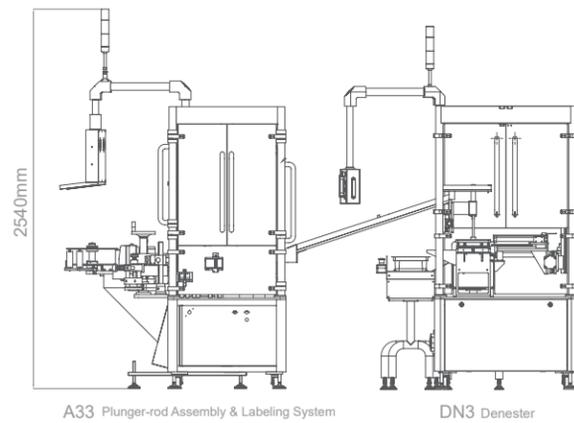


Other Complementary Solution for PFS Assembly:
PFS Denester, Visual Inspection Station, Backstop Assembly Machine, Needle Guard Assembly Machine, PFS Blister Packing Machine

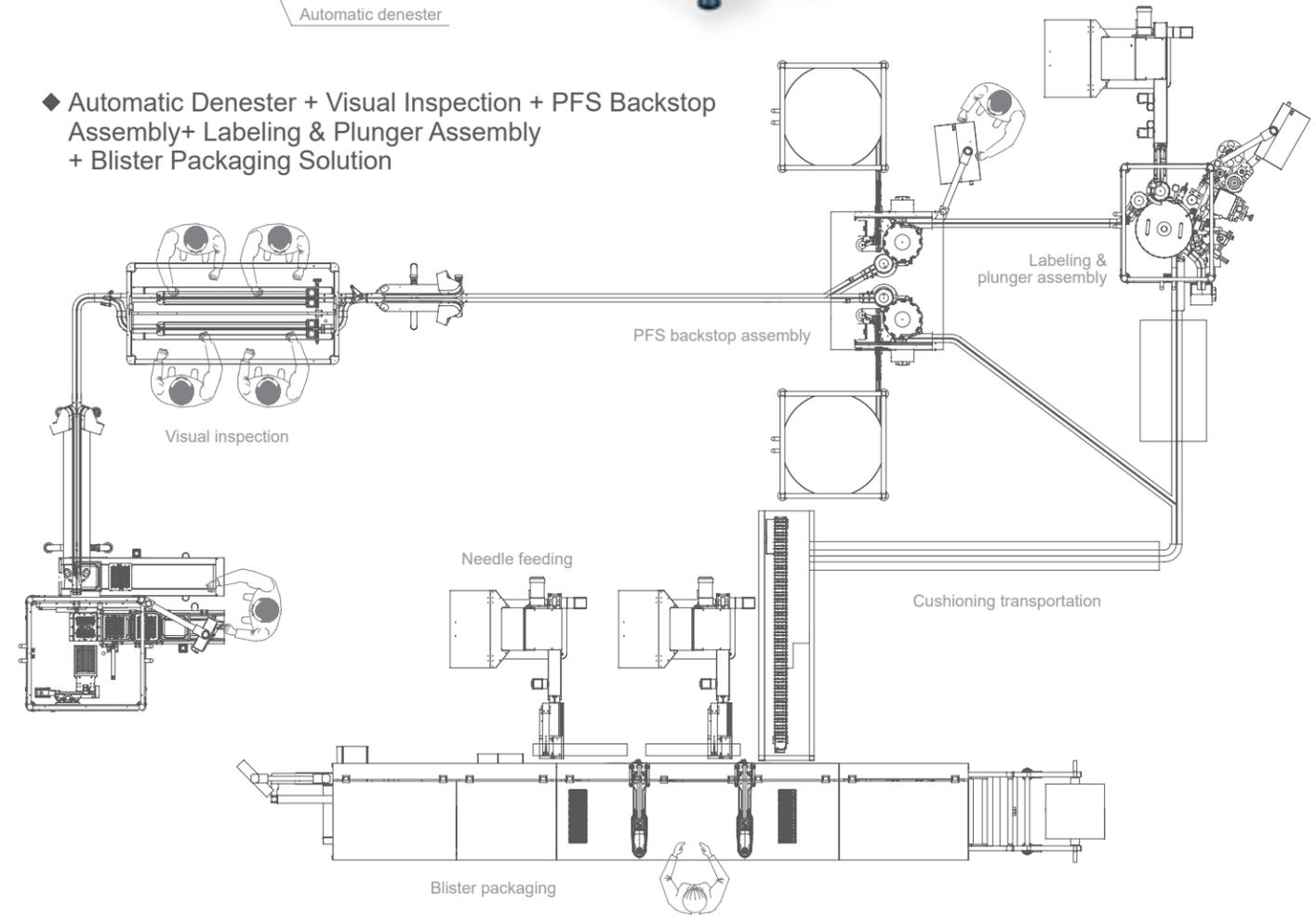
- ◆ Automatic Denester + Labeling and Plunger Assembly + Blister Packaging Solution



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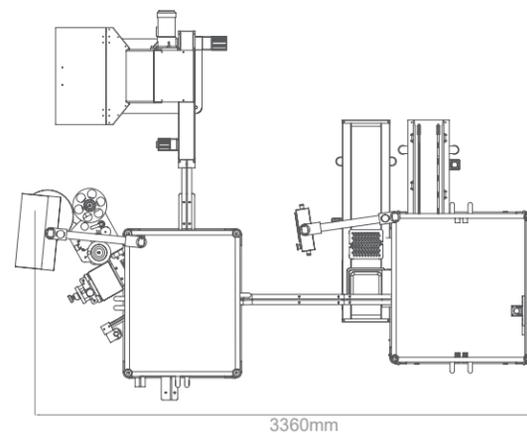
- ◆ Automatic Denester + Visual Inspection + PFS Backstop Assembly + Labeling & Plunger Assembly + Blister Packaging Solution



A11 / A11QC and A33 / A33QC

High Speed Prefilled Syringe Labeling and Plunger Rod Assembly System PHM PLS

The various systems are completed with different DN series PFS denesters for the extraction of syringes from the trays, and transferred to the PFS labeling and plunger rod assembly station automatically. Vision inspection and precise servo torque control ensure the sufficient plunger rod engagement and no-slipping plunger respectively.





PFS Needle Guard / Backstop Assembly System PHM PLS

Proper disposal of used pre-filled syringes is crucial as part of the safety measures to protect medical professions. Once the syringe is being used, needle guard will be activated to cover the needle, so that the needle guard and safety device has to be pre-assembled with the syringe. Backstop



and finger grip is pre-assembled with syringe for the advantage of injection stability.

Colamark has developed a series of innovative equipment to de-blister, orientate and assemble safety device and/or finger grip of various suppliers. Those machines will be integrated with our syringe labelling, plunger rod assembly machines and blister forming machines as complete line solutions.



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Material Status	Finished Product	Equipment
		DN1/DN3 + A11/A33
		A13
		A13
		A13
		DN1/DN3 + A11/A33 + A15
		A15
		A15
		A15



10-stations semi-automatic visual light inspection system



Scan QR code to access the product web page

Semi-automatic Inspection System

It is suitable for semi-automatic visual inspection of penicillin bottle, ampoule bottle, pre filled syringe and other containers. The inspection objects are arranged on the conveyor belt in sequence through the feeding conveyor belt and move forward with rotation. At the inspection station, the inspector is able to check various defects of the products through the low power magnifying glass accurately. It can be used for double station, four station, six station, etc. PHM



Double-station semi-automatic visual light inspection system



DN Series Prefilled Syringe Denesting Machine PHM

Denesting machine is an equipment that it is capable to unload the pre-filled syringes stored in the tray boxes after the filling and sealing processes, and distributes the pre-filled syringes to the labeling and plunger rod assembly machine orderly through intelligent controls, and has the functions of automatic collection of the empty tray boxes afterwards, which solves the problems of slow and inefficient manual operation and unexpected PFS damages. It also enhances and ensures the production efficiency and effectiveness either. In the sense of meeting the feeding rate of different types of labeling and plunger rod assembly machines, Colamark also developed different models of mid-range speed, hi-speed and ultra-high-speed systems for the customers requirement. DN series of PFS denesting machine is the ideal partner of labeling and plunger rod assembly machines.



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High-Capacity Buffer Platform PHM

In order to bring about the seamless connection between upstream and downstream equipment in the end of the packaging line, the high-capacity buffer platform is required to complete the transfer task effectively, which controls the material in and out status of the upstream and downstream equipment synchronously, ensures the uninterrupted supply of materials in the blister packaging system and avoids the stacking problem in the upstream system.



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A101
DAC PHM F&B PLS
Turntable shown is optional



Scan QR code to access the product web page



A101P PHM PLS
Turntable shown is optional

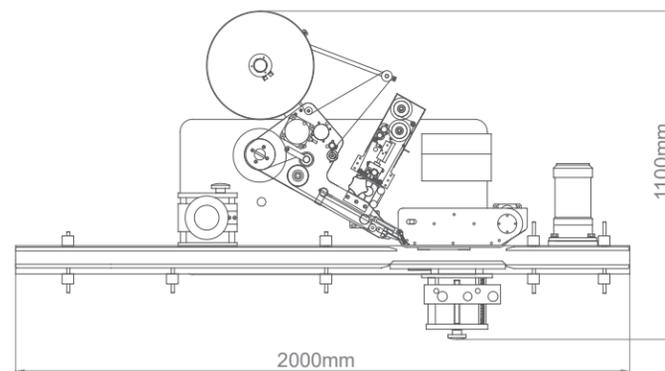
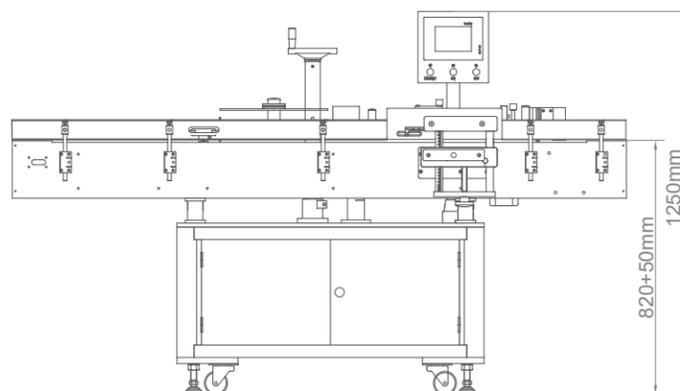
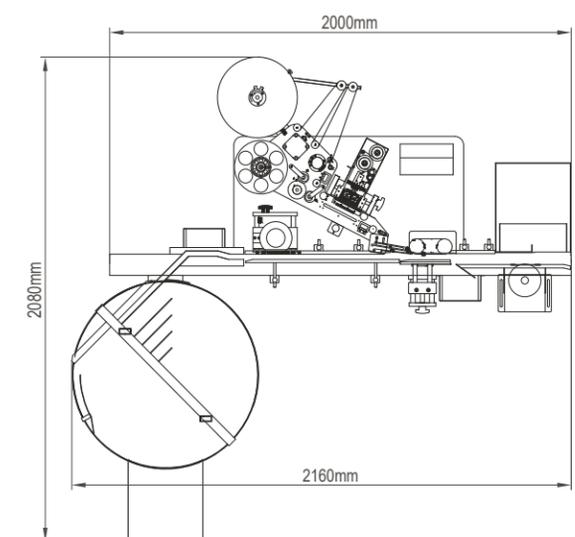
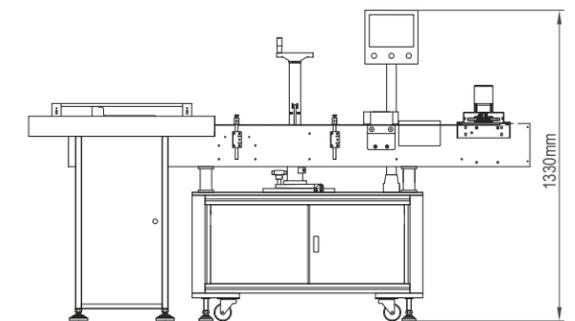
A101 Vertical Round Bottles Labeling Machine

A101 is the ideal and economical choice for the pharmaceutical, foods and beverages, and daily chemicals industries for automatic labeling on round containers that can stand upright stably. Automatically detect the label size and bottle diameter and automatically determine the right parameters for fast change over of products. Optional hot-stamping coder, thermal transfer printer, or inkjet coder for date-coding on the labels.



A101P Vertical Wrap-around Labeling System for Pharma

A101P is a simple wrap around labeling system specially designed for small pharma bottles. On top of the simple and flexible concept of the wrap-around belt method, the system includes various new design features for pharma applications to achieve extra reliability, speed, precision, and ability to inspect and accurate rejection of defective products.





A201
PHM F&B PLS



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access the product web page

A201 Horizontal Wrap-around Labeling System

A201 is an economical model for wrap around labeling of ampoules, vials and other thin bottles. Bottles are loaded horizontally and transported and labeled horizontally to maintain operational simplicity. The 3 point alignment method of the trunnion conveyor ensures high labeling precision. Proven star-wheel feeding mechanism for the bottles ensures smoothness and stability at all times. Optional label and code inspection. Unique rejection mechanism ensures accurate rejection of defective products during high speed operation.



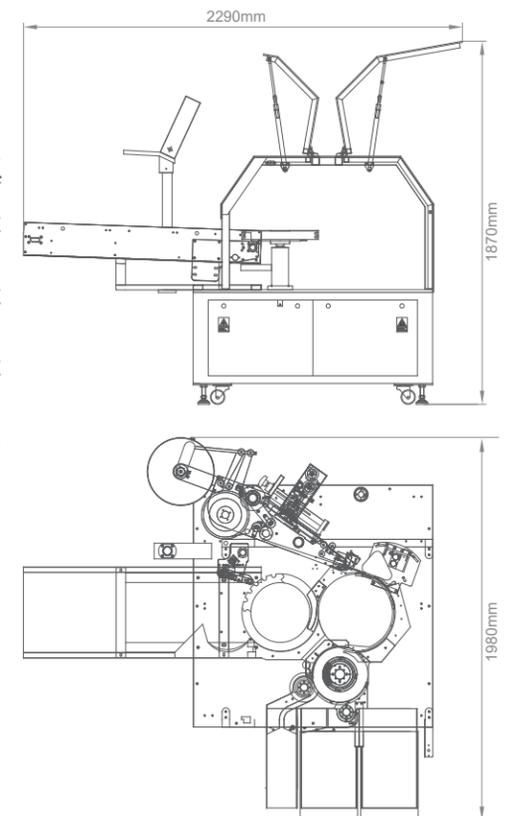
A103 PHM PLS



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access the product web page

A103 Vertical Rotary Wrap-around Labeling System for Vials

A103 is designed for high precision labeling on small pharmaceutical bottles such as vials, ampoules, and oral drink bottles, particularly that the bottle cannot stand stably by itself for movement. Using an indexing turn-table for bottle movement and 3-point holding method for labeling action, the system is able to control the motion of the bottles stably throughout the process and achieve high labeling precision. Unique cushioning mechanism to ensure no bottle breakage even at high speed movement. Precise product inspection at high speed and patented positive push diversion star-wheel ensures accurate rejection of defective products upon inspection.



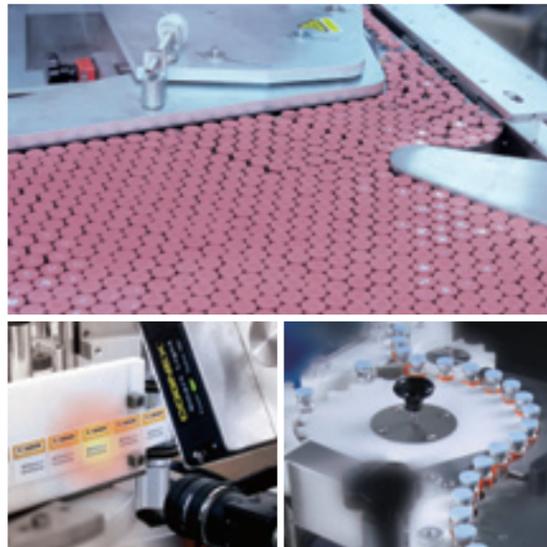


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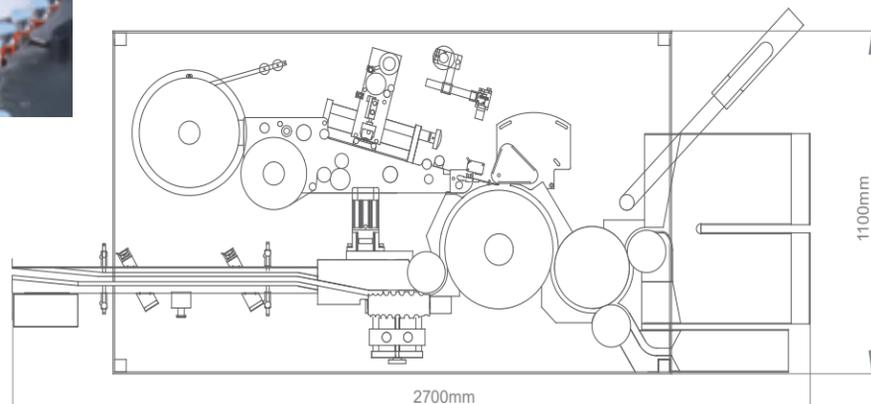


A104 PHM PLS

A104 High Speed Vertical Rotary Wrap-around Labeling System for Vials



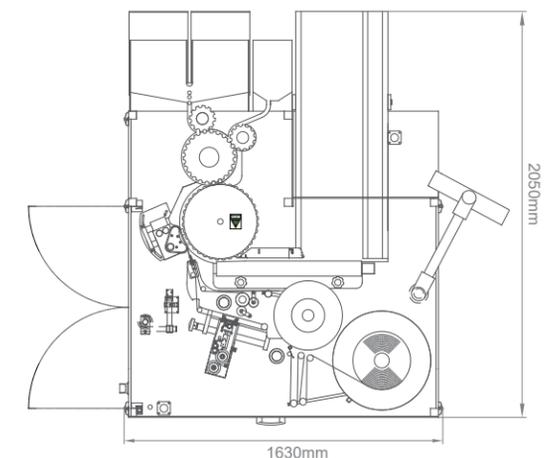
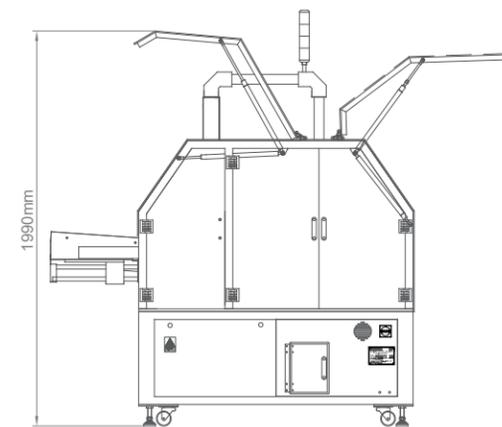
Designed for high speed and high precision labeling on vials and other small pharmaceutical bottles in a vertical manner. Indexing turn-table ensures precise label alignment with 3-point encapsulation method and accurate bottle tracking. Together with our patented positive pusher rejection star wheel, it ensures accurate inspection and diversion of rejects in good order at high operation speed. Straight line layout and spacing worm are used for easy in-line connection.



A105 PHM PLS

A105 Vertical Rotary Wrap-around Labeling System for Vials

A105 is specially designed for high speed and high precision labeling on ampoules, vials, and other thin pharmaceutical bottles that cannot stand stably for transport. Tray-to-tray operation and spacing worm for convenient standalone operation. Indexing turn-table aligns bottles with three point encapsulation method enables extra transport stability, labeling precision and accurate bottle tracking for accurate inspection and diversion. Unique elastic buffering mechanism effectively avoids bottle breakage at high speed operation.



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access the product web page



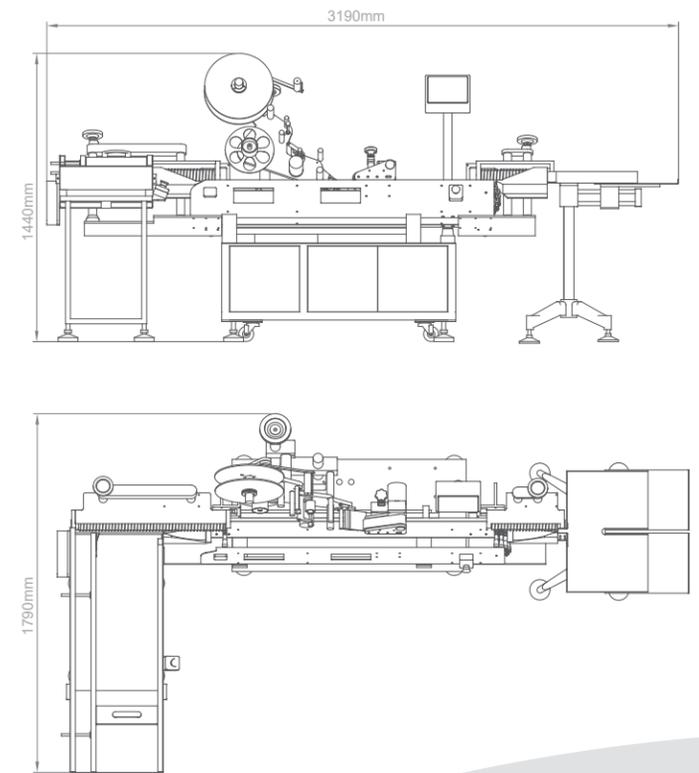
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access the product web page



A205R Horizontal Wrap-around Labeling System PHM PLS

A205 is specially designed for high speed and precision labeling on ampoules, vials, and other thin pharmaceutical bottles that cannot stand stably for transport. A spacing worm for simultaneous bottle feeding and side-turning offers the convenience of tray-to-tray loading and collection of bottles vertically, while allowing the use of a horizontal trunnion conveyor for bottle

transport and labeling, which offers flexibility and labeling precision with the 3 point alignment method. Unique mechanism effectively avoids bottle breakage thus allows smooth operation at very high speed. Optional label and code inspection. Unique rejection mechanism ensures accurate rejection of defective products during high speed operation.



Horizontal Wrap-around Labeling and Tray Insertion System PHM PLS

A205 is designed for seamless integration with the RH1 high speed tray inserter to offer the best combined performance in the market for stability, breakage rate, speed, and flexibility.



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access the product web page



TF Series Tray Former PHM

This is a compact machine to make the inner trays for pharmaceutical cartons in the packaging line. Using roll form PVC film, and the machine carries out thermal forming and die-cutting, then feed the trays in order into the packaging line. The machine offers great saving on inventory, shipment and handling over pre-formed trays. The TF Tray Former can be integrated seamlessly with the Colamark Tray Inserter to achieve further efficiency gain.



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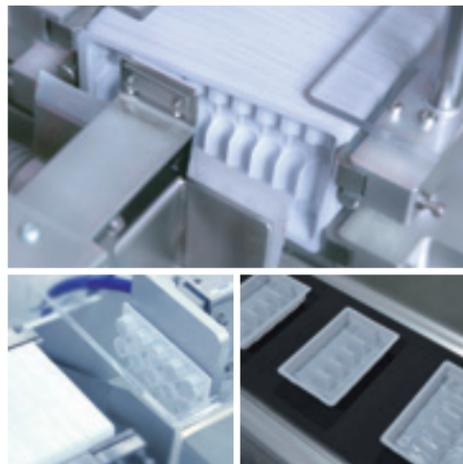
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SP3 / SP5 Straw Feeder & Placer

The SP series Straw Feeder and Placer is designed for feeding and placing pre-pouched straws into the packaging of oral drink products. It is an excellent companion to the automatic base tray insertion machine, blister packaging machine, and cartoning machine for vials and oral drink bottles packaging. SP3 handles pouches in a continuous longitudinal chain pattern, normally with multiple straws in a pouch. SP3 cuts and dispenses the pouches one by one. SP5 handles pouches of single straw in a continuous side by side pattern. SP5 cuts and dispenses a slab of a pre-set number of pouches at a time.



SP3 PHM



TS1 Horizontal Tray Feeder

TS1 is designed for the packaging process of pharmaceutical round bottles whereby the bottles are put into a base tray. TS1 feeds single tray from the stack of trays on to the tray insertion machine conveyor for subsequent insertion of the bottles into the tray. Capacity up to 100 trays per minute. TS1 works reliably for various types of base trays. Horizontal tray loading conveyor provides large supply capacity, convenient operation, and easy expansibility.



TS1 PHM



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SP5 PHM





RH1 PHM

RH1 High Speed Horizontal Tray Inserter

RH1 is specifically designed for inserting labeled round bottles horizontally into the base tray for subsequent cartoning. Using a uniquely designed buffering tank, an "S" shaped inserting path, and a servo controlled driving wheel, the RH1 operates smoothly at very high speed, and achieve seamless integration with the Colamark horizontal round bottle labeling systems.



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Vertical labeling + tray feeder + horizontal insertion application example



TS1 Horizontal tray feeder

A105 Rotary vertical wrap-around labeling system

RH1 Horizontal tray inserter



RV4 Vertical Tray Inserter

An innovatively designed machine to insert labeled vials into the base tray in single or double row alignment for subsequent cartoning process. Can be integrated in line with the Colamark vertical round bottle labeling system seamlessly.

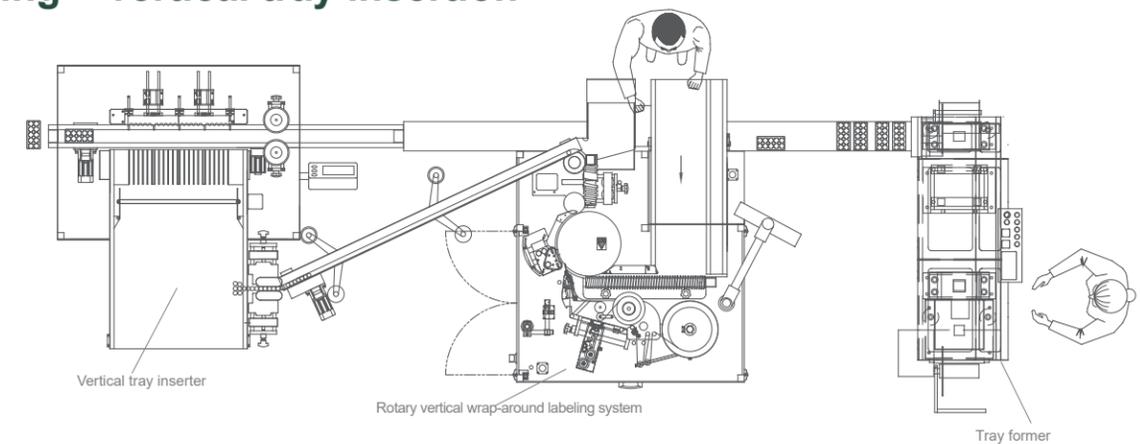


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RV4 PHM

Schematic for vertical wrap-around labeling + tray forming + vertical tray insertion

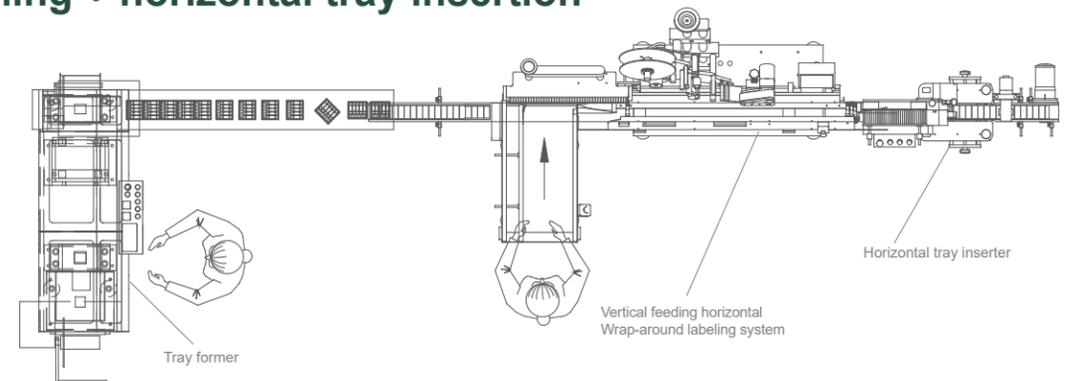


Vertical tray inserter

Rotary vertical wrap-around labeling system

Tray former

Schematic for horizontal wrap-around labeling + tray forming + horizontal tray insertion



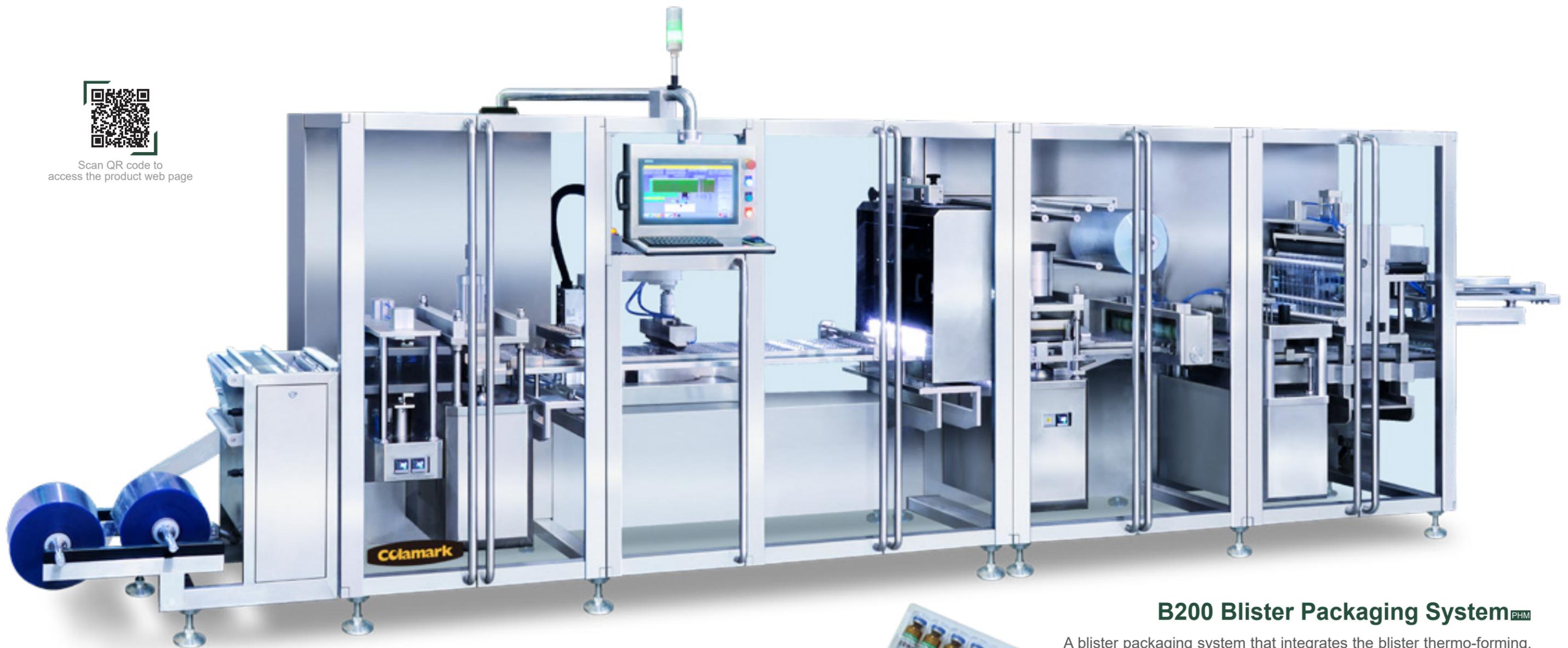
Tray former

Vertical feeding horizontal Wrap-around labeling system

Horizontal tray inserter

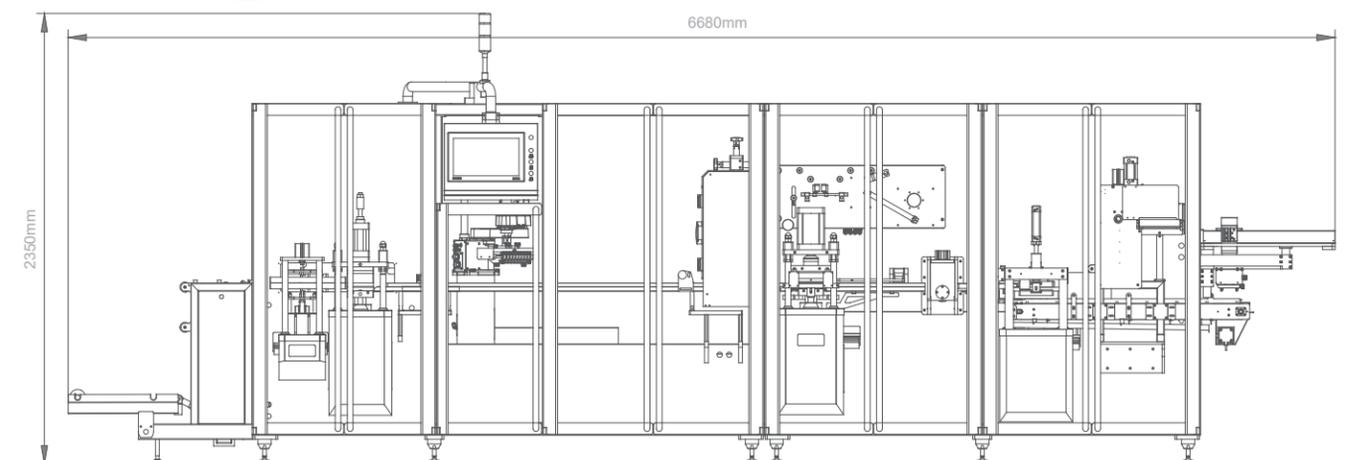


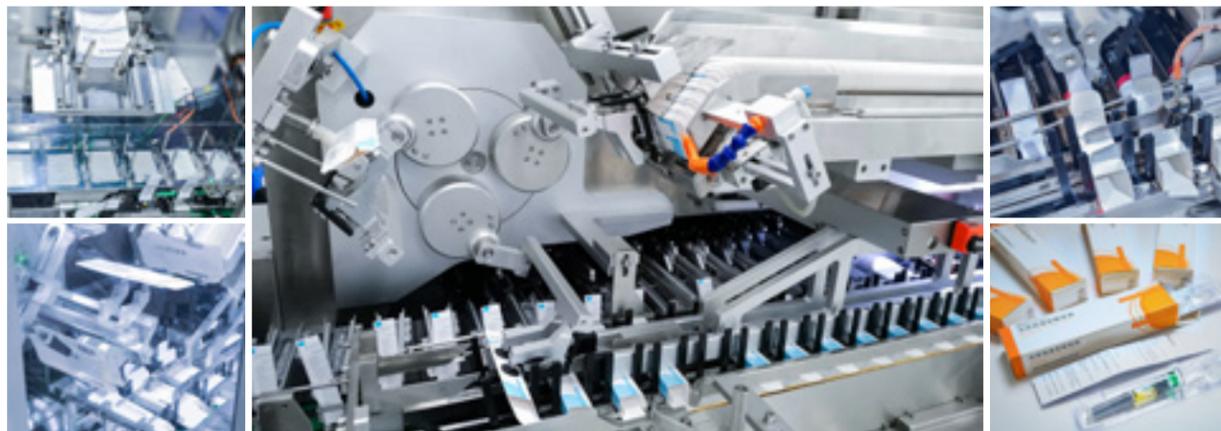
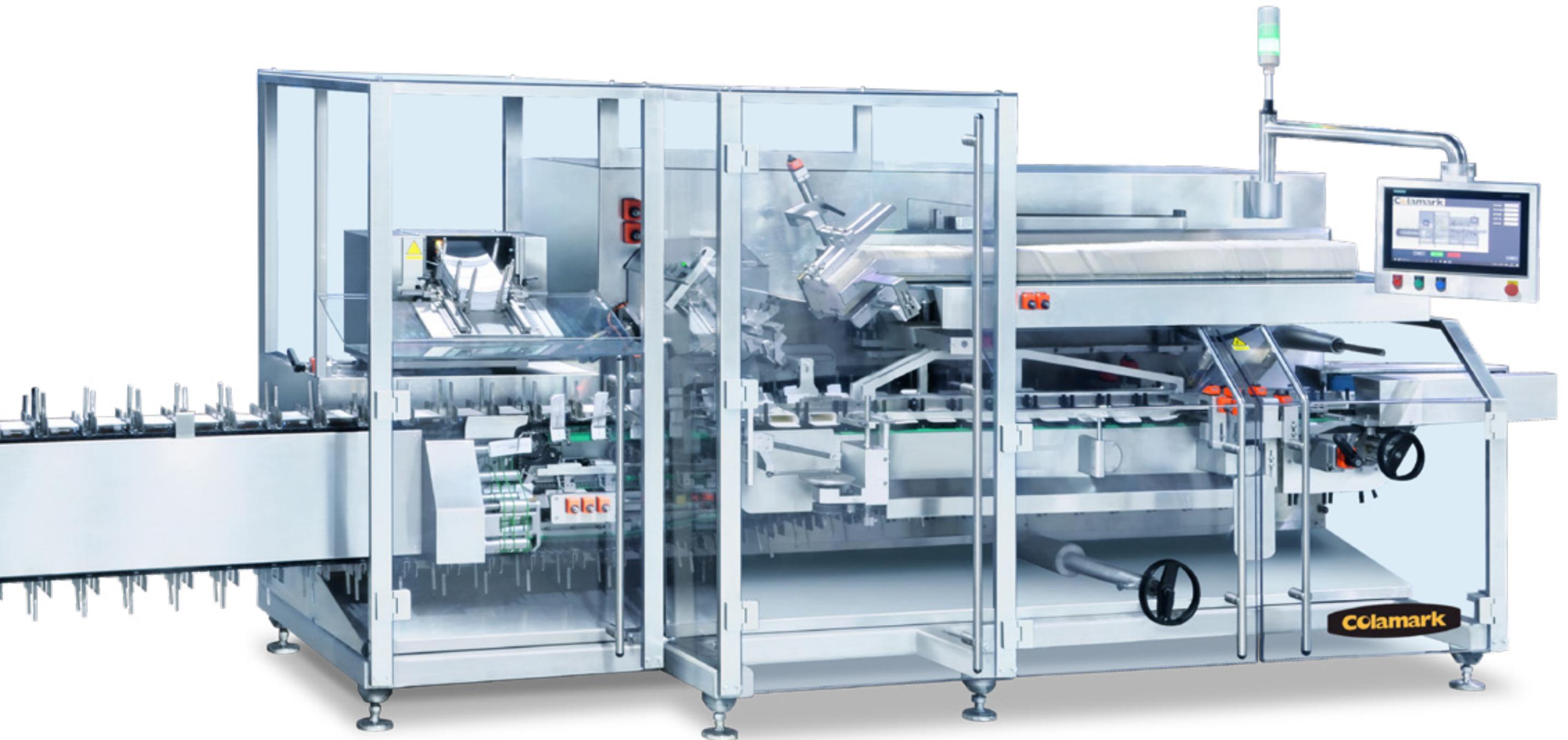
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B200 Blister Packaging System^{PHM}

A blister packaging system that integrates the blister thermo-forming, product placement, backing paper sealing, and die-cutting process into one pass. Specially designed loading platform, robotic product placement arm, and finished product discharge conveyor, the system is able to connect to upstream and downstream equipment such as the labeling machine and cartoning machine seamlessly. Suitable for small vials, oral drink bottles, prefilled syringes etc. Capacity up to 600 ppm.



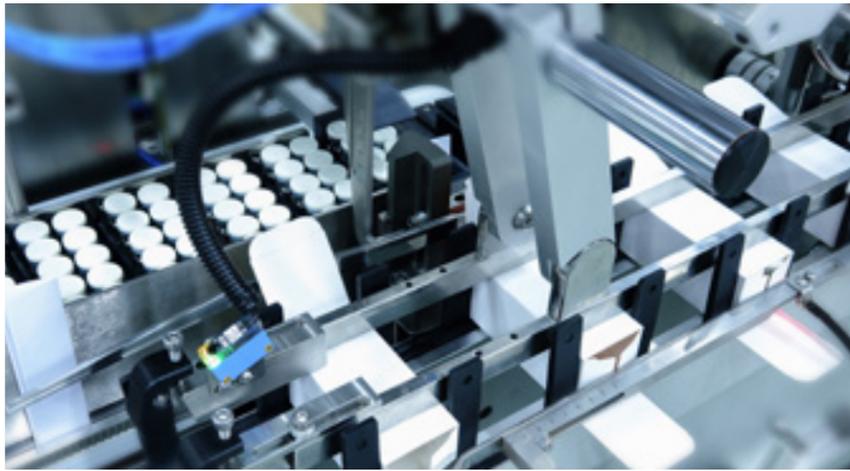


Bravo High Speed DAC PHM F&B Continuous Cartoning System

Brought to Bravo is over 20 years experience in the use and development of horizontal cartoner. Bravo combines the reliability of mechanical transmission and flexibility of servo control to give a horizontal cartoner that is reliable, fast, and easy to use. Unique carton opening mechanism, quick change parts, ergonomic design, balcony structure, smooth operation and lots of characteristics that makes Bravo the best value among all intermittent cartoners in the market.



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Pinto High Speed Servo System DAC PHM F&B

Pinto is a fully servo driven horizontal intermittent motion cartoner which offers extra adjustment flexibility, easy changeover, and superb reliability. Full servo control also allows Pinto to be adapted for unique requirements in item collation, special sizes, and other special application requirements.



Pinto



Bingo

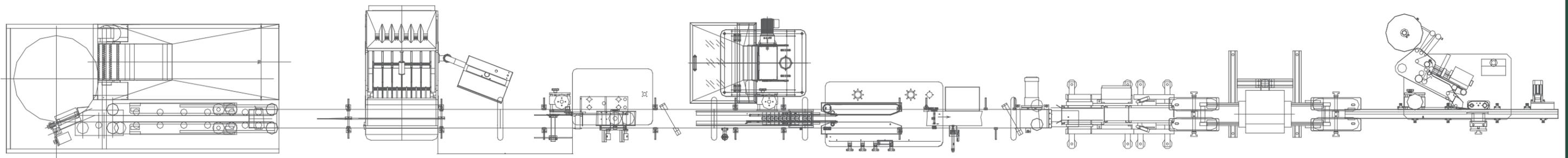


Bingo Vertical Cartoning System DAC PHM F&B

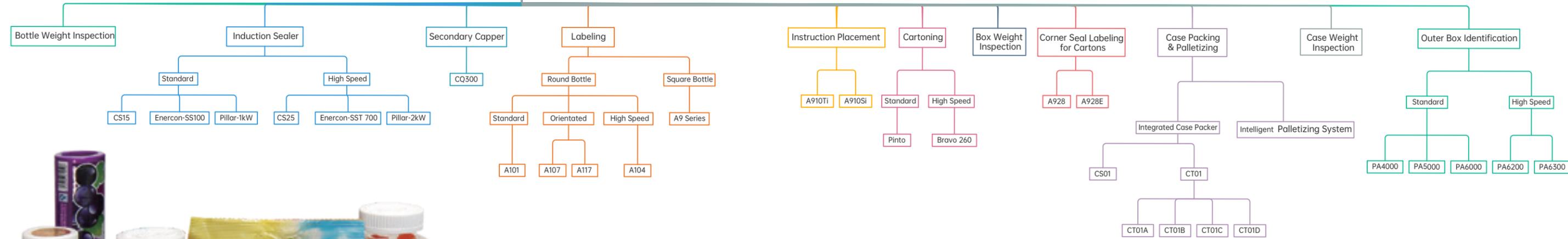
Bingo is designed for inserting products from the top of the carton, suitable for many industries such as pharmaceutical, food & beverage, stationery, toys, electronic devices etc. In vertical cartoning, product entry is achieved by gravity which is simple and suitable for many difficult-to-insert products. In the semi-auto mode, product placement is done manually while all carton handling are done automatically. Alternatively, product placement can also be done with robotic arm for full automation. Bingo accepts a wide size range of cartons and the changeover is simple, thus an ideal cartoning solution for frequent changeover applications.



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Tablet Counting & Packaging Line



Tablet Counting & Packaging Line PHM F&B

For packaging of solid doses such as pills, tablets, capsules, and soft gels. Colamark's patented vision counting technology. Flexible line configuration with various line components and different level of capacity options.

Process Flow:- Bottle unscramble → Vision tablet counting → Desiccant inserter → Capper → Induction sealer → Weigh checker & metal detector → Labeler → Cartoning → Packing → Palletizing

TE01 Tablet Elevator PHM F&B

An ideal automatic solution to supply materials to the high speed tablet counter, the bulk material is supplied from the large hopper to the transfer tank via a vibrating feeder, elevated and fed to the hopper of the tablet counter. Minimum contact parts are involved in the process for easy cleaning.



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V120 Vision Tablet Counter PHM F&B

V120 is a patented revolutionary counting solution for solid doses like tablets, capsules, soft gels, and pills. Using high speed imaging technology, bulk counting method, and an innovative calculation algorithm, V120 offers unparalleled advantages:- immunization from dust, high counting speed and accuracy, and small foot print. V120 also counts special items like clear, gummy, special shapes like electronic parts, very small like seeds, and detects and rejects broken items and debris.





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BU150
DAC PHM F&B



BU Series Bottle Unscrambler

BU Series Bottle Unscrambler is a compact and versatile machine. The unscrambler has a large volume bulk tank with escalating conveyor to supply and orientate the bottles at high speed with small foot print.



DR100



DR100 Intelligent Bottle Cleaning Machine

DAC PHM F&B

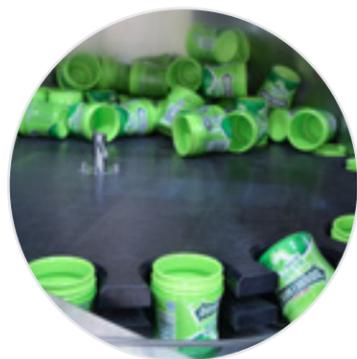
Electrostatic precipitator technology is used to eliminate the foreign particles attached to the bottle inside; vacuum cleaner is equipped to effectively suck out the particles to prevent secondary contamination; dual channel, fallen bottle discerning and diversion, counting and grouping function are applicable to the pharmaceutical, daily chemical and food industries.



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BU120
DAC PHM F&B

DS Series Desiccant Inserter

PHM F&B



Automatically cut and insert a desiccant pouch into each bottle, before or after the filling of tablets. Applicable for roll form desiccant pouches. Optional confirmation sensor to ensure effectiveness.



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DS200



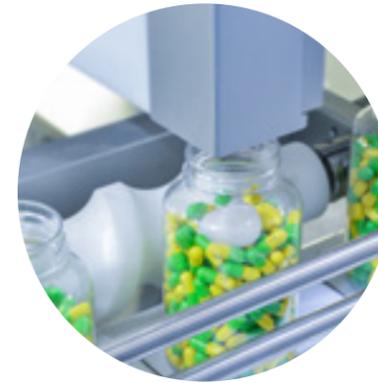
FIS100
PHM F&B



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PIS/FIS 100 PE Film Inserting Machine

PE Film Insertion Machine FIS100. This machine will cut roll form PE film into a strip according to preset length. Dual unwinder design can accommodate two PE film rolls, which can reduce the down time of limited roll supply. Multiple insertions, insertion confirmation and insertion fail rejection are also available as options.



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DS150 Desiccant Canister Inserter

Desiccant Canister Inserter DS150 is designed to insert various size of desiccant canister at high speed. Canister is supplied by vibration bowl to the insertion chute. PLC controls the accurate insertion of canister to the bottle. Optional insertion confirmation can verify and reject bottles with no canister.



DS150
PHM F&B



COS100
PHM F&B



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web page

COS100 Cotton Inserter

Cotton Insertion Machine COS100. Cotton is supplied in continuous form. Our machine can take a strip of cotton based on preset length then insert into bottle. Cutter option can cut cotton strip nice and clean for insertion. Multiple insertion per bottle is also available.



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CL120



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CL300

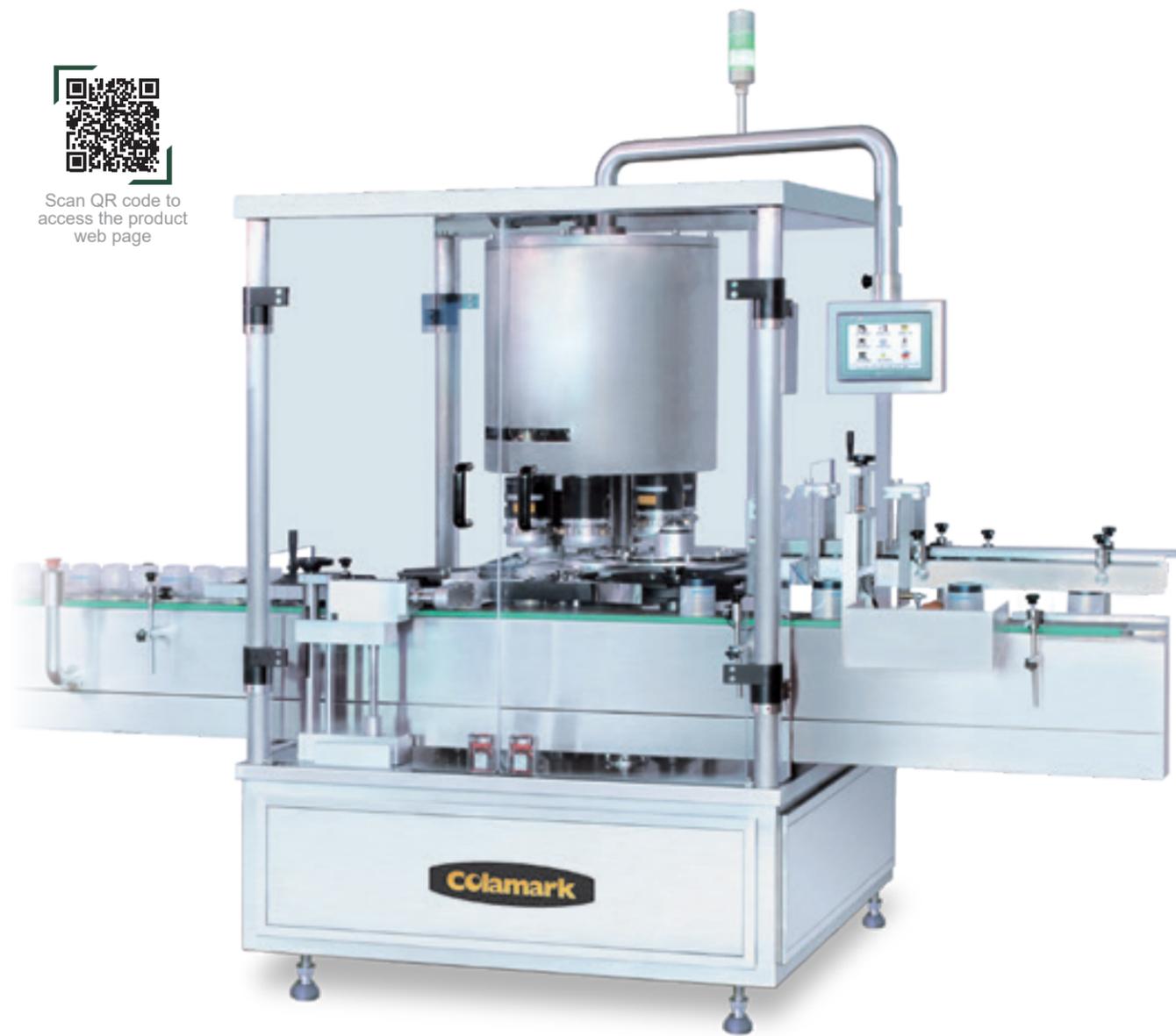


CL Series In-line Capper DAC PHM F&B

A simple yet versatile capping solution. Caps are supplied by an escalating conveyor to the cap chute and then laid on the top of the bottles. The bottles are transported by a pair of hugger belt conveyor to avoid rotation and multiple pairs of driving rollers tighten the caps at the same time. Optional servo torque control ensures just sufficient torque are applied to the cap. Cap height sensor detects ensuring reliable output quality. Applicable for a wide range of bottle and cap sizes. Standard model capacity up to 200 caps/min and high speed model up to 250 caps/min.



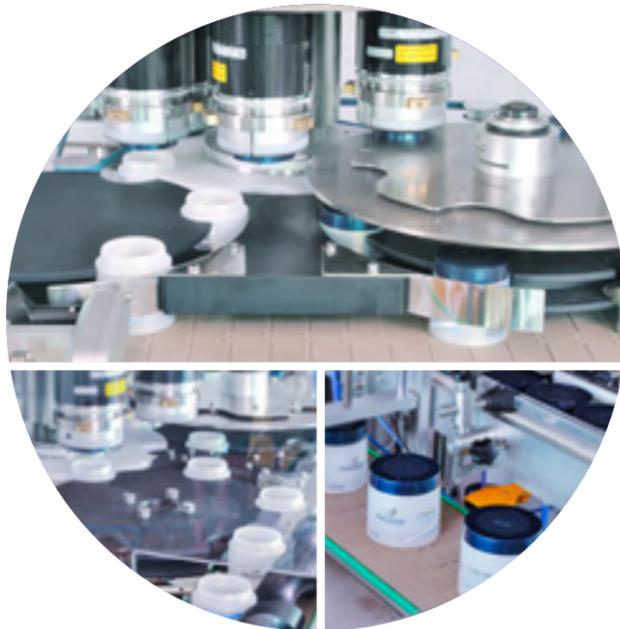
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web page



CL150S



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web page



CPR Series Rotary Capper

The CR rotary capper offers high throughput, precise torque control, and the ability to handle non-standard shapes of bottles or caps. Centrifugal cap feeder and robotic cap placement ensures high speed. Bottles are transported by a carousel which fully controls the bottles and caps in the process so that fast, stable operation, precise torque control and high success rate are achieved. Bottles and caps of special shapes can be handled with specially designed gripping head and bottle station. Different number of rotary stations is available to meet different capacity requirements. Maximum capacity up to 400 bpm. DAC PHM F&B



CL150S Snap Capper

An easy-to-use inline machine for snap on caps. Caps are supplied to the cap chute via an elevating conveyor for accurate placement on the bottles. The cap is subsequently pressed tight on to the bottle by a spring loaded hold down belt in a synchronized continuous motion, achieving high throughput and success rate. DAC PHM F&B



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access the product web page



A910Si



Scan QR code to
access the product web page



A910Ti DAC PHM F&B PLS Front Labeling System with Top-serter

The system is designed to attach pre-folded leaflets on the top of bottles. The servo controlled rotary pick and place mechanism ensures high process speed and impressive registration precision. The top-serting function can be integrated into the labeling machine for front/back or wrap labeling in the same pass. It can also be configured as a stand-alone system to integrate into an existing packaging line.



A910Si DAC PHM F&B PLS Front Labeling System with Side-serter

The system is designed to attach pre-folded leaflets on to packaging bottles during the labeling process so that the relative position between the label and the leaflet can be properly ensured. Based on the A910 series labeling machine, the A910Si can handle side labeling, 3-side wrap labeling on square bottles, and wrap around labeling on round bottles. The systems runs at up to 150 ppm and is widely used for pharmaceutical and nutraceutical industries.





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Swabs delivery unit



Manuals throw in unit



Cartoning



Automatic tray inserter



Labeling unit



Automatic case packing



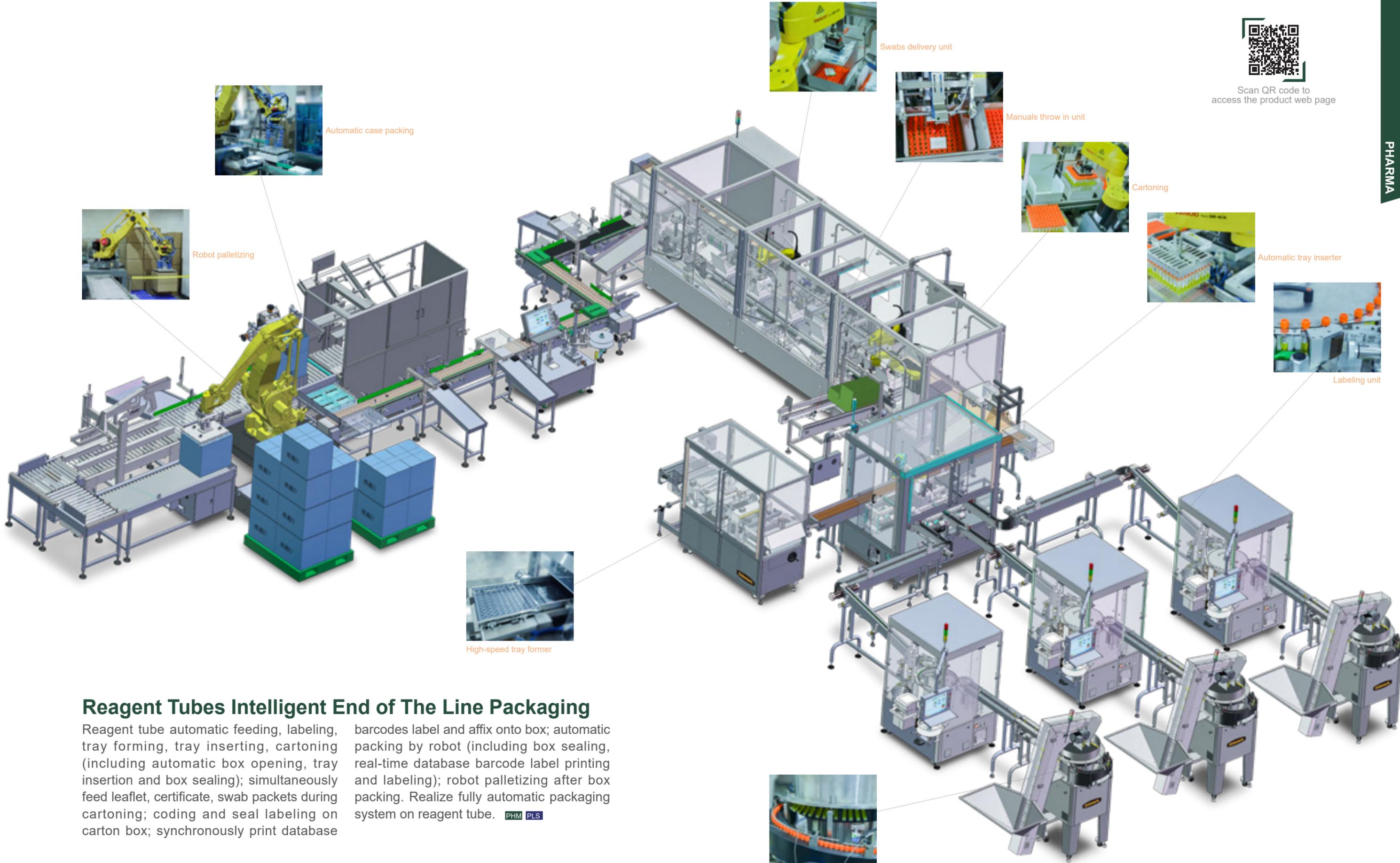
Robot palletizing



High-speed tray former



Reagent tube high-speed feeding



Reagent Tubes Intelligent End of The Line Packaging

Reagent tube automatic feeding, labeling, tray forming, tray inserting, cartoning (including automatic box opening, tray insertion and box sealing); simultaneously feed leaflet, certificate, swab packets during cartoning; coding and seal labeling on carton box; synchronously print database

barcodes label and affix onto box; automatic packing by robot (including box sealing, real-time database barcode label printing and labeling); robot palletizing after box packing. Realize fully automatic packaging system on reagent tube. PHM PLS



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A743



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A928 DAC PHM F&B PLS Tamper Evident Labeling System for Small Cartons

A928

A928 is designed for seal labeling on two opposite corners of small pharmaceutical cartons. The system provides a complete process for carton separation, labeling, and missing label detection and diversion to ensure perfect output quality. Easy connection to the cartoning machine for subsequent corner sealing of the cartons at the end of the line.



A928E



Scan QR code to access the product web page



A741



Scan QR code to access the product web page

A74 Series Modular Top/Side Labeling System

A modular system for the top/side labeling on flat surfaces designed with flexibility and ease of use in mind. A wide range of options available for configuration including top/side convertible mounting, separating wheel for product singulation, synchronized hold-down belt for transport stability of light weight items, corner wrapping device, thermal printing engine, second labeling engine, inspection and rejection devices for quality assurance or serialization need, and lots more. DAC PHM F&B PLS





CT01A DAC PHM F&B PLS

Vertical packing mode and servo driven manipulator are adopted to realize the functions of case unpacking, packing and sealing.

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CS01 DAC PHM F&B PLS

The horizontal packing mode is adopted, and the servo driven manipulator is used to realize the functions of case unpacking, packing and sealing, etc.

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CT01D DAC PHM F&B PLS

It adopts vertical packing mode and equipped with advanced robot, which is able to realize the functions of case unpacking, packing, placing instruction sheet, clapboard paper, case sealing, etc.

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Intelligent integrated Case Loading Machine

The automatic carton opening, packing and sealing machine consists with two main types: horizontal type and vertical type. It integrates the functions of carton unpacking, discharging, packing and sealing in one system. The clapboard paper can be added in the discharging process at the same time, which reduces the trouble caused by the connection of multiple equipment. It is simpler

to use and greatly reduces the equipment cost. It is especially suitable for small carton packing in the pharmaceutical industry. It can be seamlessly connected with Colamark's cartoning machine, blister machine, sealing and labeling machine and other equipment. It is widely used in the pharmaceutical, food, daily chemical and other industries.





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A920 Front and Back Labeling System

Designed with easy adjustment, flexibility and reliability in mind, A920 is an ideal choice for front and back labeling on oval, rectangular, or other irregular shaped bottles. A specially designed alignment belt aligns the bottles before entering the labeling station and a synchronized hold-down belt keeps the gesture of the bottle while labeling. This way, labeling precision is ensured while offering high through capacity and adjustment convenience at the same time.

A910R Side Labeling System with Follow-up Rotation

DAC PHM F&B PLS

A910R is a multi-function labeling system for side labeling on oval or rectangular shaped bottles. Equipped with a Follow-up turning mechanism, the system is also able to handle 3-side or 4-side wrap-around labeling on rectangular bottles, and wrap-around labeling on conical bottles as well.



Labeling Modes



* (D) Needs an additional labeling engine.



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A923T High Precision Front/Back & Orientation Wrap-around Labeling System

Using a pair of grippers oscillation in step with the feeding screw to define the bottle shape at 4 points for perfect bottle alignment, thus ensures extra labeling precision. Particularly suitable for difficult to align shapes such as near-circle oval, short ellipse, asymmetric etc.



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A923 Front/Back and Orientation Wrap-around Labeling System

DAC PHM F&B PLS

A combo version of the A920 which adds high speed orientation wrap around function for round bottles to the system. Wrap around labeling is achieved by the turn-table mechanism which moves the bottles through the wrap station where the bottle is spun at high speed for orientation labeling. Easy changeover between front/back to wrap labeling modes.



Scan QR code to access the product web page

A9 Series Front/Back Labeling System Model Description

The A9 Series is a modular labeling system that offers a wide range of configurations for creating labeling solutions for different types of bottle shapes and labeling requirements for objects that are transported in a vertical manner for labeling from two sides. This includes front/back on oval bottles, wrap

around with orientation on cylindrical bottles, side labeling on tapered bottles, multi-sided or wrap-around labeling on square bottles, high precision labeling, and corner seal labeling etc. Multi-function configuration is can also be achieved most of the time. Following illustrates the typical configuration of the A9 Series.

$x = 1,2$ (1= front labeling , 2 = front and back labeling)

$y = 0,1,2,3$

0 = w/o wrap around

1 = w/ wrap belt

2 = w/ pneumatic arm orientation wrap around

3 = w/ turn-table orientation wrap around

A9 xy

$z=R,T,U$

R= w/ follow-up turning mechanism

T= w/ high precision synchronized swing arm alignment mechanism

U= w/ top labeling



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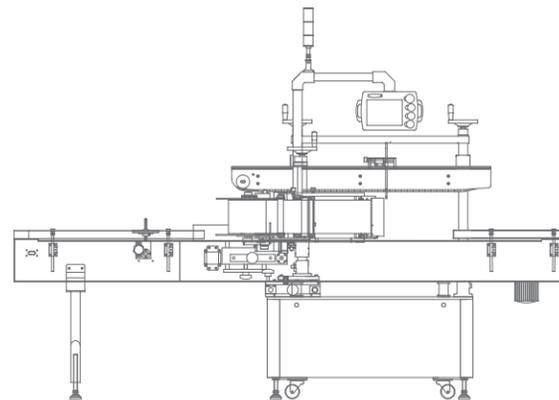
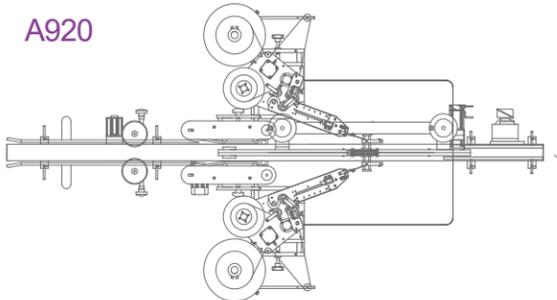


A700

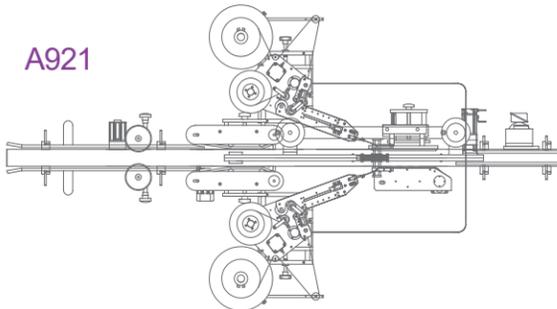


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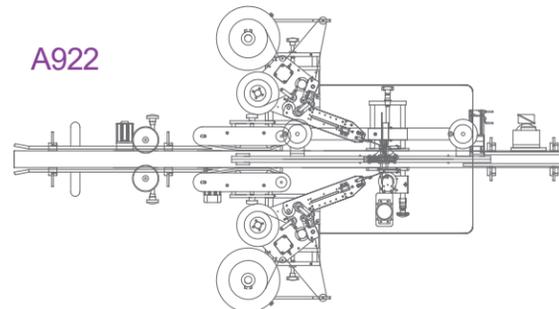
A920



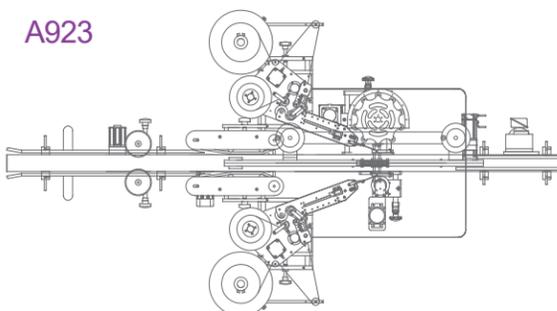
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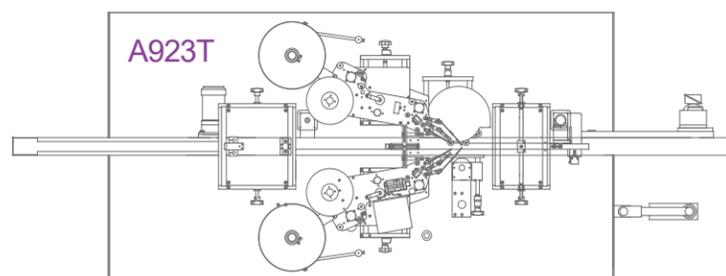
A922



A923

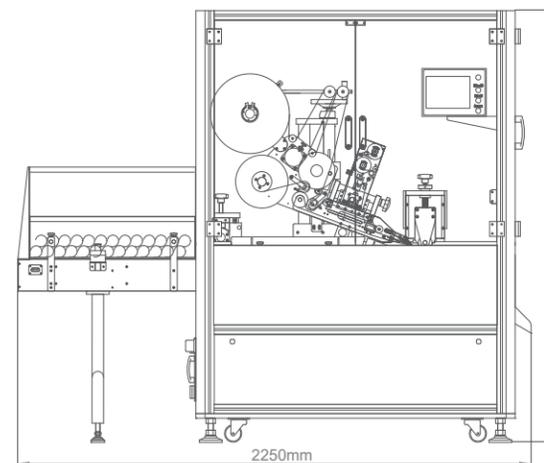


A923T



A700 DAC F&B Soft Tube Labeling System

Designed for wrap-around labeling on empty soft tubes, the system uses a roller conveyor to feed the tubes and then a mandrel turntable to transfer and support the soft tube body, overcoming the typical challenges with soft tube labeling – feeding path jamming and soft tube body. Runs up to 120 ppm. Options include orientation labeling, inspection and rejection.



Tube size	Φ20~50mm x (L)20~240mm
Capacity	≤120ppm
Labeling precision	±0.25mm



A107/A117 DAC PHM F&B PLS Orientation Wrap-around Labeling System

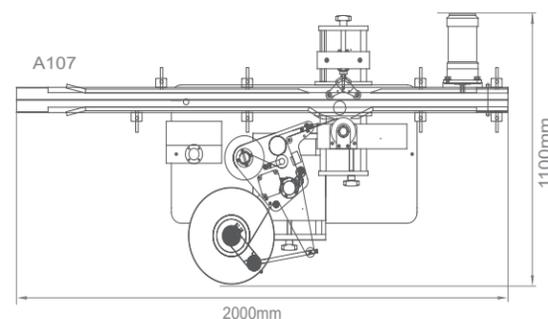
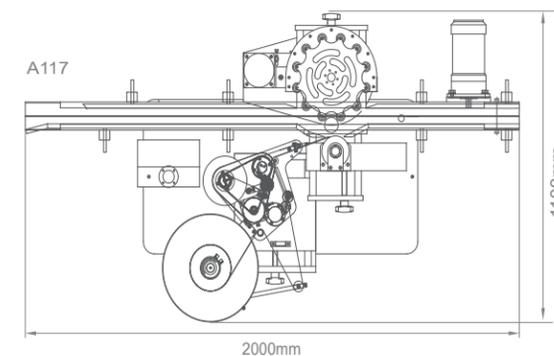
The A107/A117 rotate the bottle for wrap around labeling by gripping at 3 points on the bottle body to ensure precise parallel alignment of the label and at the same time achieve label orientation and/or multiple labels on one bottle. It is widely used in the personal care products, food & beverage, and pharmaceutical industry.

The A107 uses a pneumatic fork to hold the bottle for rotation and is particularly suitable for large diameter and heavier bottles. The A117 uses a indexing turn-table to move and hold the bottles for rotation and is particularly suitable when fast process capacity is important.

A107WS DAC PHM F&B PLS 5 Gallon Pail Wrap Around Labeling System

Designed for wrap around labeling on 5 gallon pails. Featured with registration control, extra large driving roller, automatic handle lifter, low

profile design for ergonomic comfort, and extra structural strength. Optional lifting rotation table for fully filled pails of heavy weight.



A5 Series DAC PHM F&B PLS Semi-auto Labeling

A5series is a simple solution for low volume and high precision labeling requirements, particularly for the personal care products, beverages, and pharmaceutical industries.

A510	High Precision Labeling Machine
A511	Labeling Machine for Flat Bottles
A520	Round Bottle Labeling Machine
A522	Soft-tube Labeling Machine



A109

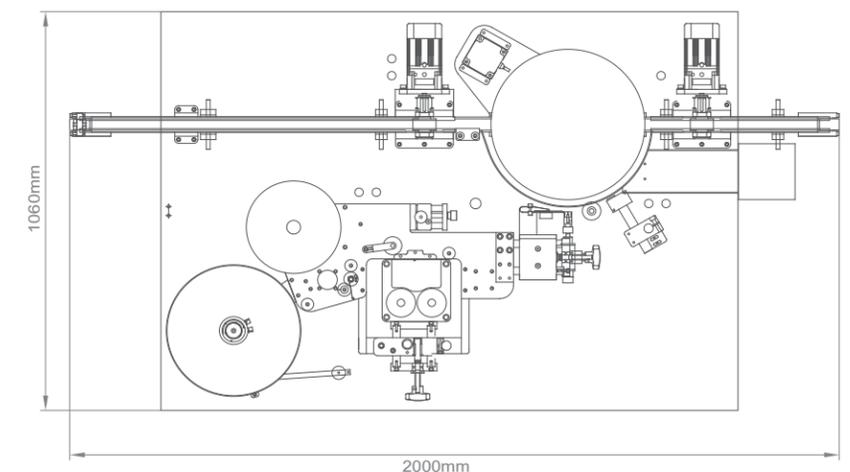
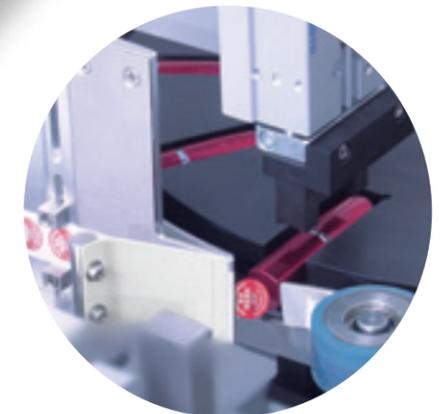


A109 Series DAC PHM PLS Lipstick Labeling System

A109 series is specially designed for high precision labeling on the end surface of lipstick casing, or other products of similar shapes, cylindrical or prismatic (e.g. Lip pencil, mascara etc.), for the cosmetics industry.



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A732H

DAC PHM F&B PLS



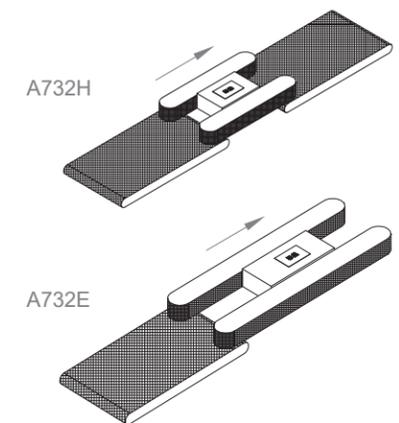
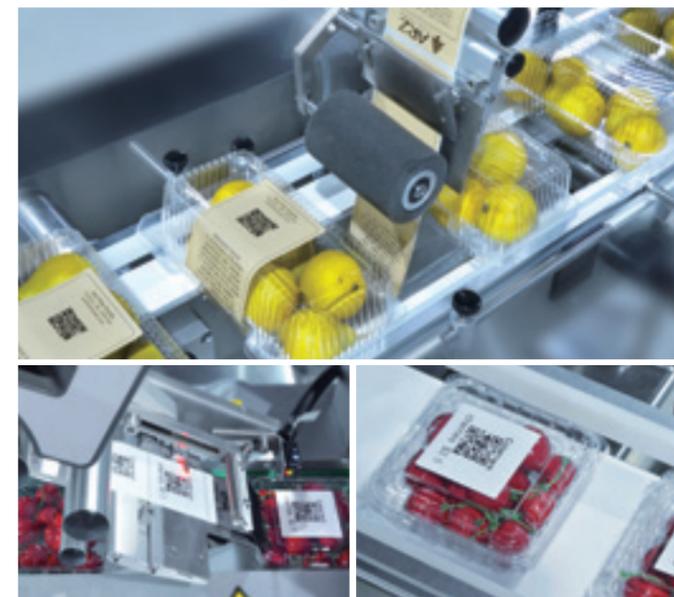
A731SP

DAC PHM F&B PLS

A73 Series Top & Bottom Labeling System

The A73 series uses a balcony structure to allow free space underneath the conveyor surface for installation of labeling engine and adapting devices. With modular design and a wide range of functional components, the A73 series is ideal for top/bottom labeling and wrap labeling on clam shell packages including the C-wrap, D-wrap, and E-wrap formats. Thoughtful design offers wide applicable size range, flexible configuration, and ease of use, making it an ideal labeling solution for the fresh food, bakery, fruit and vegetable, personal care product industries. The A73 series can be configured to different models. The typical model A732, is configured with two labeling

engine for top and bottom labeling, input and output conveyors for easy connection, a hugger belt for transport of object for labeling. Hugger belt transport ensures full control of products so that labeling precision can be ensured irrespective of the weight and thickness of product. It also allows access to every point of the top/bottom surfaces, avoiding any labeling blind spot, as well as the possibility of C-wrap and D-wrap labeling formats. A732 can also be configured with different transport methods for top/bottom access, including two successive conveyors, dual parallel conveyors and extended hugger belts.



Top or Bottom Labeling



C Wrap



D Wrap



E Wrap



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S30



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access the product web page

S30 DAC PHM F&B Shrink Sleeve Labeling System

An ideal system for inserting sleeve labels on to bottles or other types of packaging containers at high speed. Patented negative pressure film buffering mechanism and servo controlled satellite label cutting blades ensure the smooth and stable processes of label feeding, cutting, and ejection.



RG16

RG Series DAC PHM F&B PLS Rotary Labeling System

A series of rotary labeling systems designed for the extra high speed and high precision requirement of the beverage, food packaging, beauty care, and chemical industries. Capable of labeling round bottle with orientation, round bottle with multi-labels, oval bottle front/back, square bottle wrap around,

square bottle multi-sided, conical bottle etc. Bottle registration is made by mechanical, photo-electric, or vision method. Available in 8, 12, 16, 20, 24 stations. Options available: non-stop label roll change synchronized coding, vision inspection.



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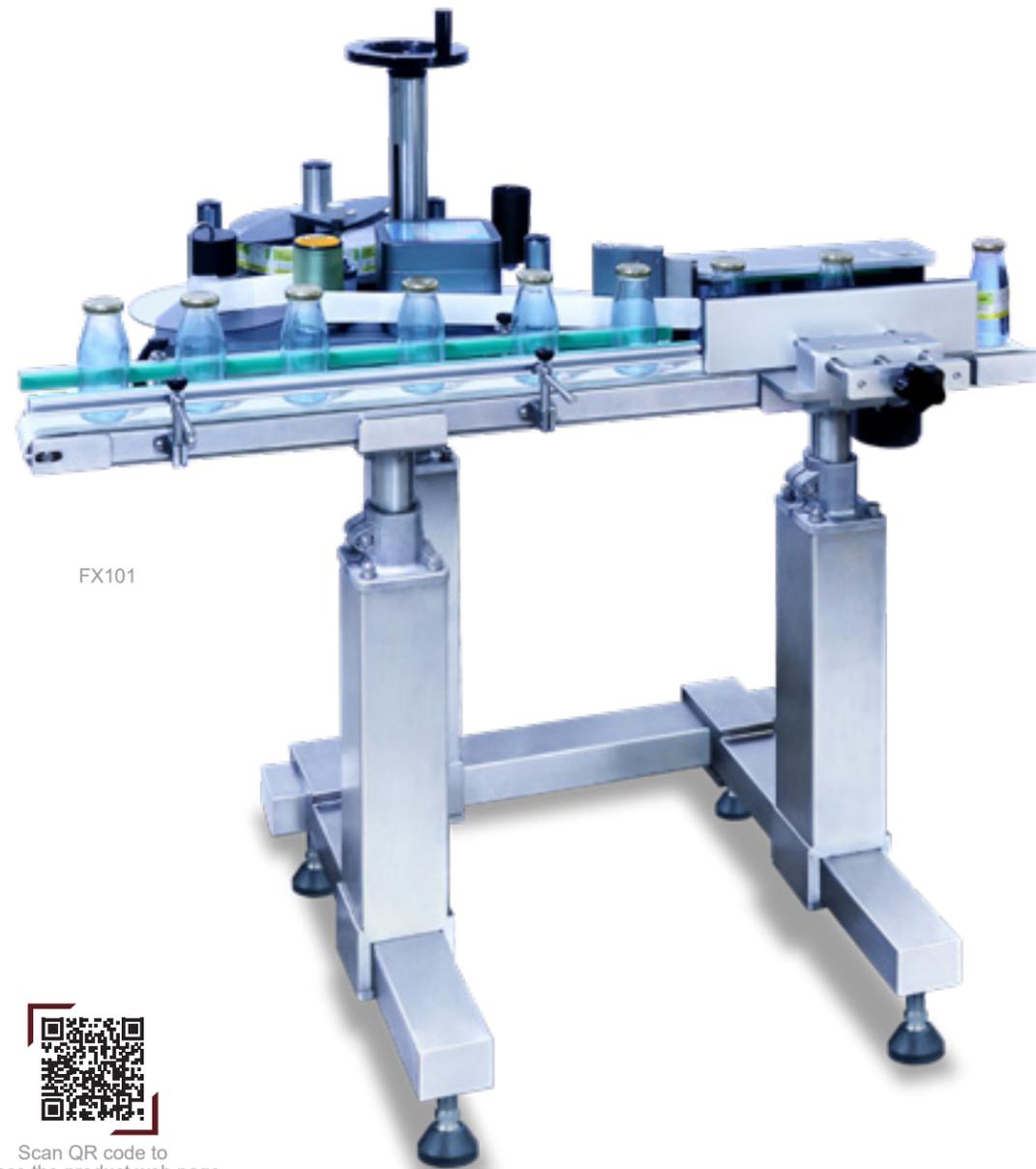


F&B PLS A202 Sausage Labeling System

Specially designed for automatic feeding and wrap around labeling on cylindrical shape sausages at high speed. The system is designed with careful consideration of the soft body of the sausages so that smooth material handling and wrinkle free labeling can be achieved.



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FX101

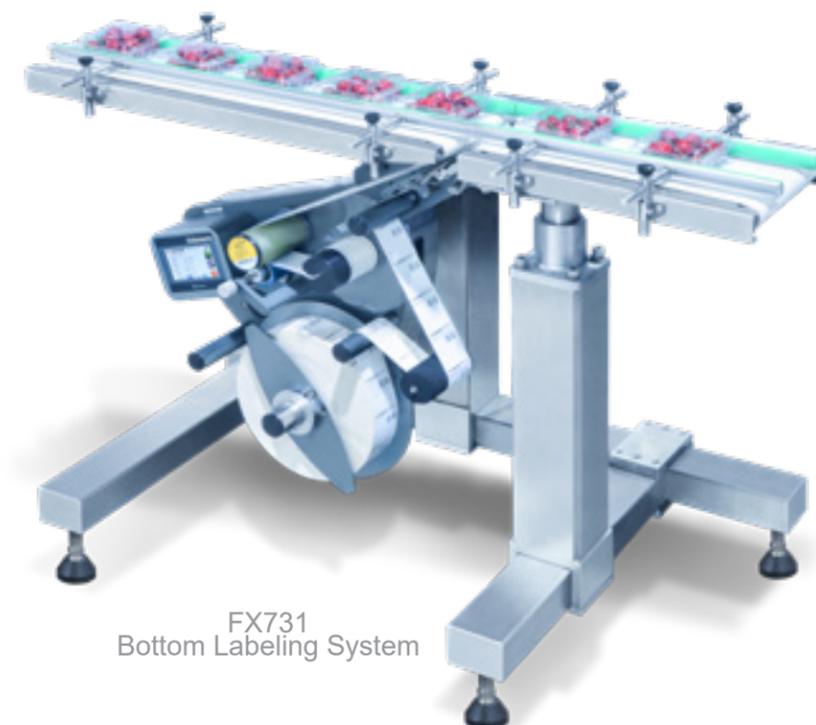


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FX Series DAC PHM F&B PLS Modular Labeling System

FX series is a flexible combination series labeling machine designed by Colamark according to the special requirements of customers. The overall structure of the machine can be used for maximum disassembly and assembly, which greatly simplifies the proportion of packaging space of the equipment while facilitating flexible conversion of application needs of customers.

FX series includes: single head landing labeling, plane labeling (top), plane labeling (side), bottom labeling, top/bottom labeling, round bottle labeling series.

FX741
Top Labeling SystemFX731
Bottom Labeling SystemLS100
for Stand-alone Top
Labeling



Versmark PLS



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web page

Versmark Series Personalization Platform for Sheet Products PLS

Versmark is a versatile system for the personalization of thin products including cards, leaflets, container caps, hang tags, cartons, bags etc.. Modular design consisting of three main sections: Feeder, transport, and collection, with a large applicable size range. Different type of components can be selected for each section according to the characteristics of the products to process and the processing requirements. The system can also be configured with a large variety of optional functions, including coding, curing, labeling, vision inspection, rejection, and also modules for feeding and transporting irregularly shaped products too.



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Websmark

PLS Websmark Roll to Roll Personalization Platform

Websmark is a personalization platform for roll materials. While unwinding and rewinding the roll of material, personalized data can be printed with different printing technologies such as CIJ, TIJ, DOD, and laser. Vision inspection system ensures integrity of the printed data. Labeling engine is available for subsequent coverage of confidential data with a scratch off panel.



i36 **DAC PHM F&B PLS**i70 **DAC PHM F&B PLS**i70 Duo **DAC PHM F&B PLS**

i Series DOD High-Resolution Digital Printing System

Colamark i series inkjet printing system provides high-resolution DOD inkjet printing. It can be installed on printing machines, rewinding device, mailing system, conveyors, packaging equipments to provide high resolution variable data printing. Use UV curable inks. Resolution up to 1200 dpi.



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F Series Card Feeder

Feeding cards, folded leaflets, booklets. Can be used stand-alone or integrated into a parent machine for material feeding or counting use. Optional accumulation device allows counting and discharging products in batches of preset size.



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RP Series Rotary Pick & Place Feeder **DAC PHM PLS**

The suction and rotary mechanism of the RP series ensures high speed and stable feeding of many different forms of items that is difficult to handle by a friction type feeder, including sheet items of irregular shape, trays, pre-pouched items, soft materials etc. It is a good companion for packaging machines, imprinting lines, and assortment operations etc.



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LE100
DAC PHM F&B PLS

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LE100 Modular Labeling Engine

For automatic labeling on products and packages on the conveyor line, mostly for the purposes of product identifications, track & trace or other functions. Various options including different widths, synchronized coder, speed encoder, and different label adapting mechanisms to meet a wide range of application requirements.



A188
DAC PHM F&B PLS

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A188 Series Stand-alone Labeling Machine

For automatic labeling on products or packaging on the production line to achieve the objective of product identification, anti-counterfeiting, or other functional requirements. A wide range of configurations and optional accessories are available to meet different application requirements.

A188 series is designed for easy addition to the packaging line for automatic application of labels on to the packages. A188 series can be mounted on the floor by the line with the standard X-Y adjustment stand and can be moved among different positions easily. A188 can also be mounted on a parent packaging machine for synchronized application.



LS100 Compact Labeling Engine

DAC PHM F&B PLS

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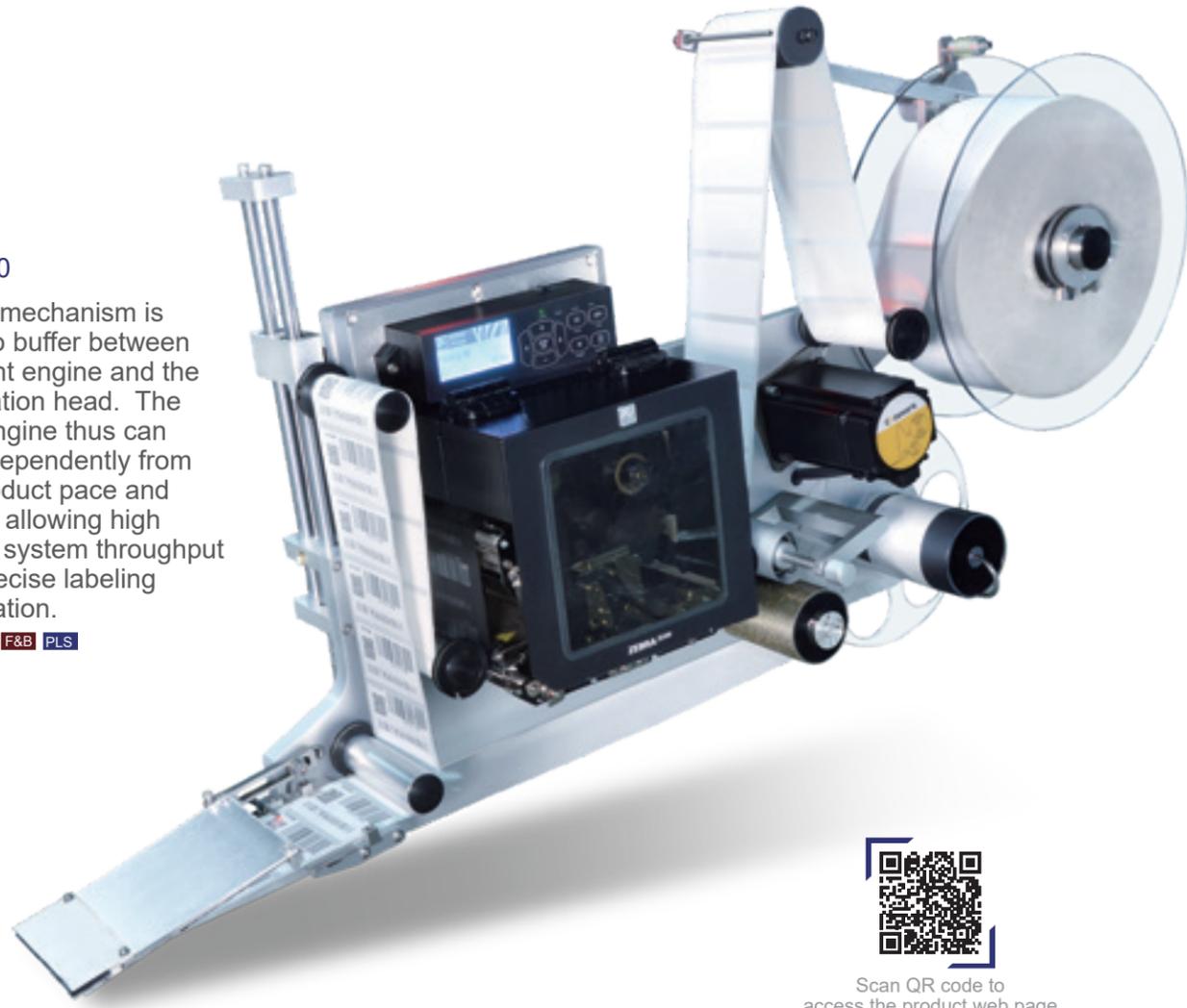
LS100

LS100

PA6300

A loop mechanism is used to buffer between the print engine and the application head. The print engine thus can run independently from the product pace and speed, allowing high overall system throughput and precise labeling registration.

DAC PHM F&B PLS



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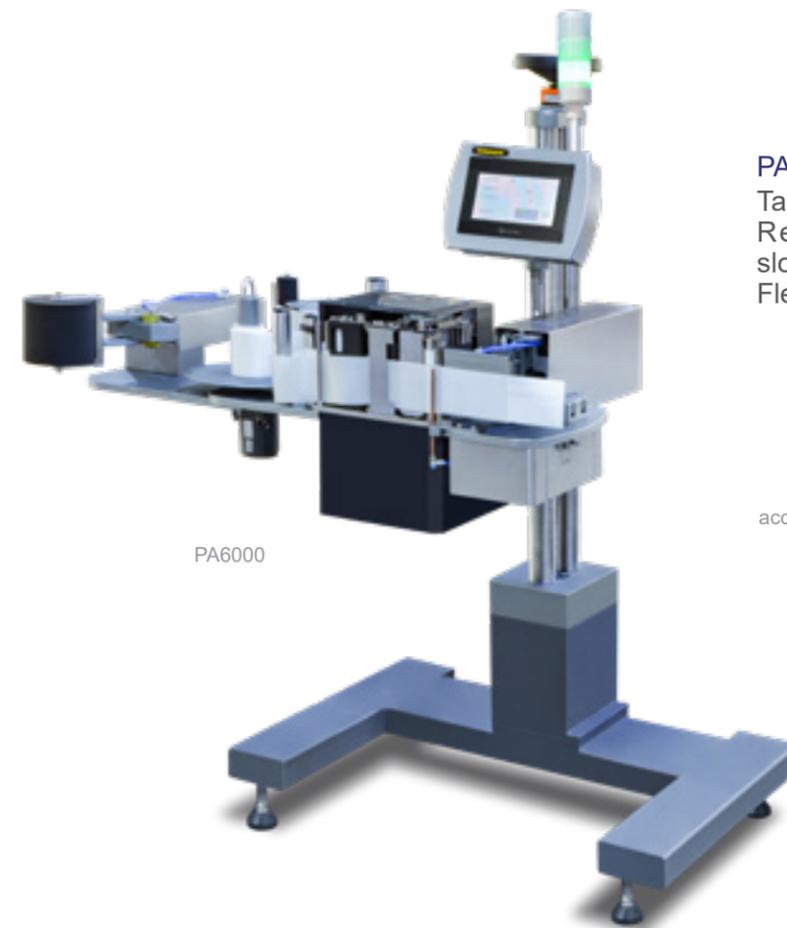
PA Series Print and Apply System

The system prints and applies labels on to the product package simultaneously. It enables the host system to put logistic and identification information on to the outer

packaging, and thus provides an effective basis for track & trace and anti-counterfeiting applications.



- ① Tamp-on
- ② Corner wrap
- ③ Air blow
- ④ Swing arm
- ⑤ Rolling



PA6000

PA6000 DAC PHM F&B PLS

Tamp-on application mechanism. Real time data printing. For slow moving or stopped product. Flexible product distance.



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PA6000



PA6200

PA6200 DAC PHM F&B PLS

Roll-on application via a suction belt. Real time data printing. Applicable for products moving at high speed.



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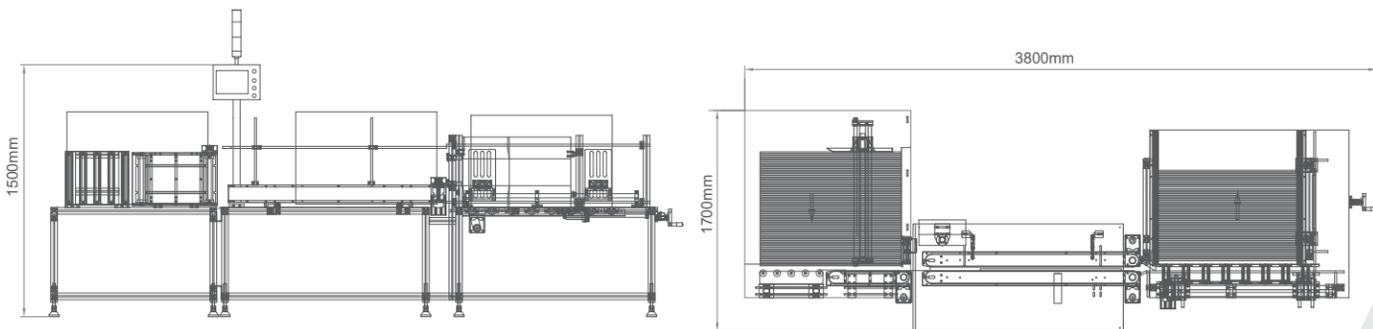


A751LC Vertical Flat Carton Transport Platform DAC PHM F&B PLS

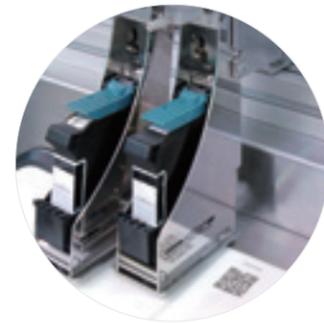
A751LC is a transport platform designed for offline processing of large flat cartons for labeling and inkjet printing. Vertical operation offers the benefits of large capacity supply, labeling and coding on both sides of the flat cartons in the same pass. Inspection system can be added for data verification with optional rejection mechanism.



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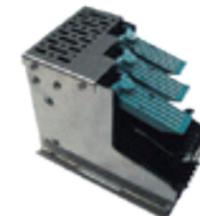
Capacity	3~50m/ min
Labeling precision	±1.0mm



Single pen holder
Print height 12.7mm



Double pen holder
Print height 25.4mm



3-pen holder
Print height 38.1mm



4-pen holder
Print height 50.8mm

HP TIJ Systems DAC PHM F&B PLS

The TIJ inkjet system is an industrial inkjet solution from HP employing the proven thermal bubble technology to drive super fine ink dots for printing. It allows maintenance free printing of high resolution graphics on a board range of porous and non-porous substrates. The system is able to print variable data, graphics, and barcodes (PIATS, code 128, EAN, code 39, I2of5) and 2D codes (Data Matrix, QR) and characters of various languages.

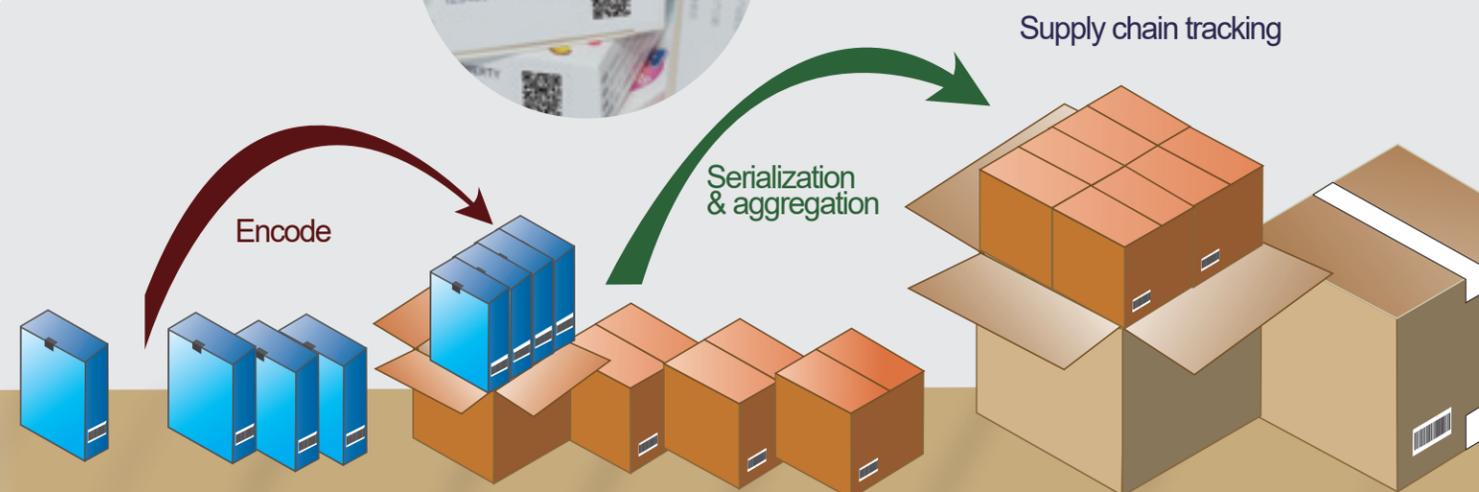
Serialization & Aggregation Solutions

Colamark provides product serialization and aggregation solutions from Level 1 to Level 5, which include software, transport conveyors, coding/labeling devices, aggregation devices, and verification and rejection devices. The system operates smoothly with easy and flexible setup to cater for different packaging and aggregation formats.

DAC PHM F&B PLS



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4.0 and IOT

Colamark partners with world leading 4.0 and IOT solution providers including Advantech, Marchesini Group, Siemens, Tracelink, Videojet and Zebra Technology to provide an End-to-End solution. Our equipment collect data from production floor to supply chain by converting your Raw Data to Smart Data, so that your team will benefit from Factory Production Visibility, Product Track and Trace, Supply Chain Optimization, Artificial Intelligence Integration.



Building industrial Internet of Things platforms with the help of on-line equipment and devices, the performance data of production workshop is collected in real time. Embarking on the digital journey with Colamark equipment can accurately understanding the current production capacity, to bridge the gaps with your end customers and plan the roadmap ahead with Smart Data.

Advantech IPC acts as brain on Colamark machines. IPC connected with various types of sensors such as RFID reader, wireless sensors to collect Raw Data from the production line and work field, then convert them to Smart Data at the back end.

Marchesini Group enable Colamark solution on data capture, data/code verification and product inspection to achieve 4.0 solution for our customer's factory automation. Our solution includes carton coding for both unfolded or folded, roll to roll labels, individual syringe, vial and ampoule inspection.

Siemens PLC control is the heart of our machine to make sure that our equipment can service our customers for years. Our 21 CFR Part 11 solution based on Siemens WinCC to develop and connect all the machines with SCADA.

Tracelink is our L4 to L5 partner which enable our pharma customers access to cloud-based Track and Trace and Supply Chain Optimization.

Videojet is our partner of on-line product coding, both unique code and batch code. We fully integrate Videojet Laser marker, Thermal inkjet printer, Thermal transfer over-printer with our professional service. Global warranty service is also provided with Videojet network.

Zebra is our source of print engine and mobile computing. We have been working together since we launch our Drug Administrative solution since 2008.

With Colamark's business partners and our integration solutions, following objectives can be achieved.

- ◆ Digital Factory/ Industrial IOT
- ◆ Intelligent Data Management
- ◆ Product Track and Trace
- ◆ Supply Chain Management
- ◆ Channel Management
- ◆ CRM





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RW420

RW Series Label Rewinder

The RW series Label Rewinder is a good companion for label applicator users which allows them to keep accurate track of label quantities, change roll direction, add over printing to pre-printed label rolls, or even slit down multi-across label rolls. The R series is available in horizontal or vertical working mode.

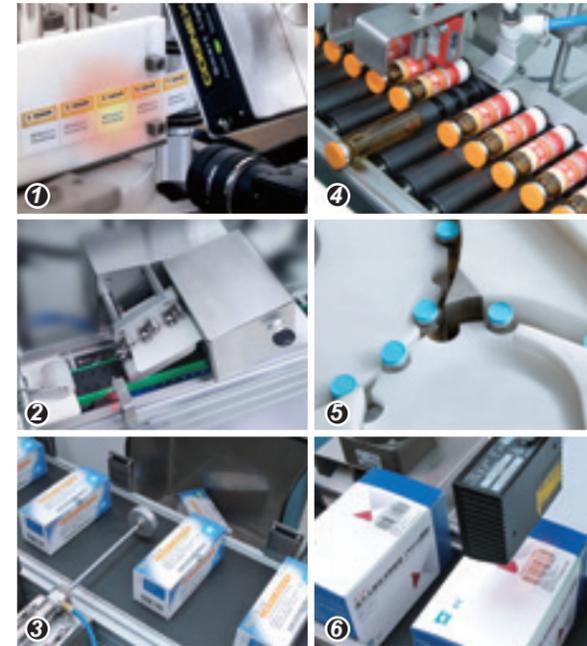


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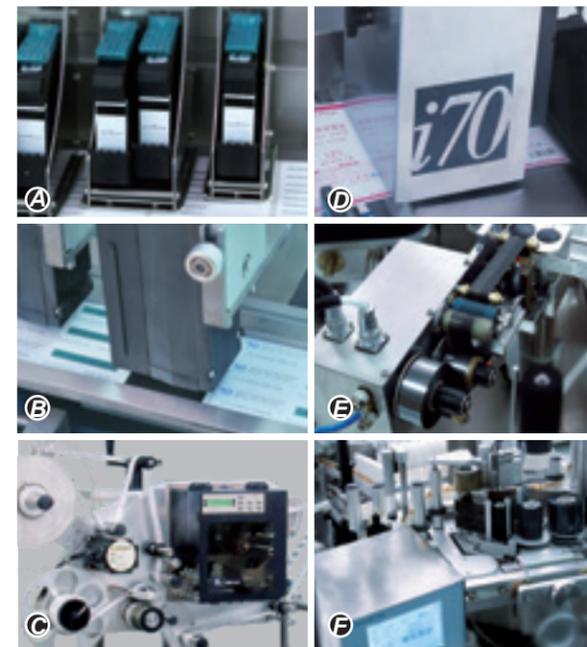
RW420V

	RW420	RW420V
Max. label roll outer dia.	Φ400mm	Φ400mm
Max. label width	200mm	200mm
Rewinding speed	100m/min.	100m/min.
Working mode	Horizontal	Vertical



Optional inspection devices & rejection mechanisms

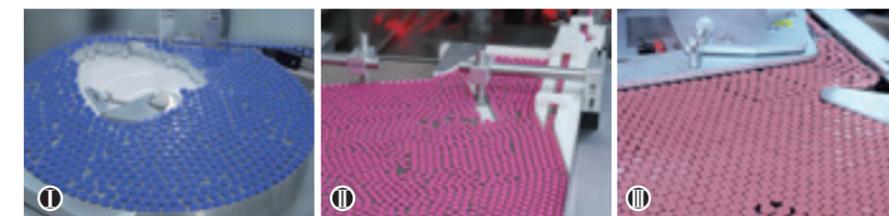
- ① Vision inspection system
- ② Rejection
- ③ Air cylinder diverter
- ④ Air blow diverter
- ⑤ Star wheel diverter
- ⑥ Bar code inspection
- ⑦ Flip conveyor diverter



Optional online coding devices

- Ⓐ HP TIJ Inkjet coder
- Ⓑ CIJ coder
- Ⓒ Thermal printer/applicator
- Ⓓ DOD High-Resolution Digital Printer
- Ⓔ Hot stamping coder
- Ⓕ Thermal transfer overprinter
- Ⓖ Laser Marking

Optional loading, collection, and buffering devices



- Ⓘ Turntable
- Ⓚ Multi-lane buffering conveyor table
- Ⓛ Hi-speed loading platform



Labeling | Counting | Packaging | Serialization

For continuous improvement, Colamark reserves the right to change the design and specifications of the products contained herein without prior notice. All quoted performance parameters contained herein can be affected by the size, shape, and dimensional variation of the materials to be processed and may be different.

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