Colamark

Packaging	
	Counting
Labeling	
	Serialization

Ecode

Serialization & aggregation

Supply chain tracking
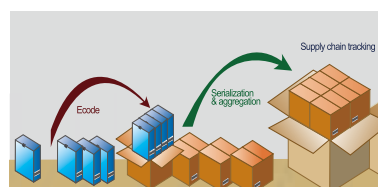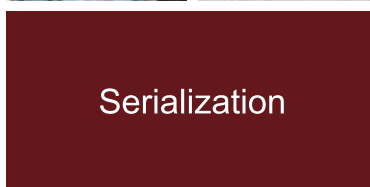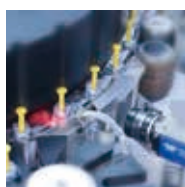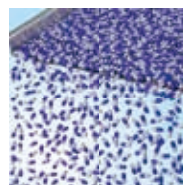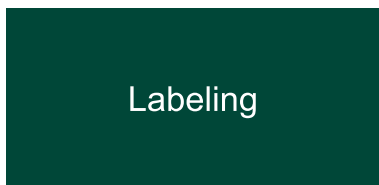
On Target Solutions

Introduction

Colamark specializes in the development and manufacturing of automatic labeling equipment for the industry, as well as packaging equipment and system integration around the labeling process in the production line.

As a leading labeling solution provider, our solutions were widely adopted by global 100 companies in the industries of pharmaceutical, personal care, telecom, chemical, and food & beverage. Colamark has trained hundreds of labeling experts for the industry since inception. In 2008, our equipment was selected as a key device for the China Pharmaceuticals Tracking Information System of China (www.drugadmin.com). Colamark also works closely with industrial experts to heighten the standard of the packaging industry. Our equipment is used as training and demonstration equipment by Avery Dennison's Kunshan Printing College where thousands of labels and labeling practitioners are trained. Our latest labeling solutions offer benefits of product traceability by integrating features of manufacturing automation, on-line data acquisition, and IOT ingredients seamlessly to production line.

Since our inception, our vision has been to make "Colamark" the leading name of automatic labeling equipment in China with technology, creativity and enthusiasm, and then further develop that to become a world-class name of automatic labeling equipment through close cooperation with our international partners. Today, "Colamark" has successfully achieved the leading position of automatic labeling equipment in China and Asia. We are installing equipment in different countries which are well appraised by our overseas customers. We have achieved the very important first step towards our vision.

Colamark is managed from Hong Kong where we liaise with our international partners in business and technologies cooperation. In China, we run a engineering and manufacturing center in Guangzhou and a direct sales network in Guangzhou, Shanghai, Beijing, Wuhan, Chongqing, Qindao and Hong Kong, as well as a distributor network in other major cities throughout the country. Our sales and service engineers are all well trained and experienced professionals sharing our common values and the motto "Customer first".

PHARMA

P1~P32

FOOD & BEVERAGE

P43~P48

PERSONAL CARE

P33~P42

PRINTING & CARDS

P49~P54

TRACK & TRACE

P55~P68

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

DAC	Personal care industry
PHM	Pharma industry
F&B	Food & beverage industry
P&C	Printing & cards
SRL	Product serialization

Intelligent Production

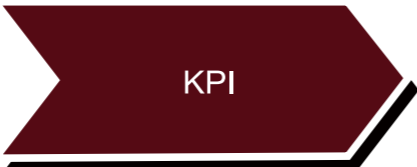| Results	Enhance Visualization	Eliminating Information Isolation	Channel Loyalty	Market Share	Customer Loyalty

Application	Paperless Production Audit Trails	KPI	Process Optimization	Channel Management	Customer Interaction

Decode	Barcode Reading	Visual Camera	Weigh Checker	RFID	Robotics	PC	Smart Phone

Encode	Labeling	Inkjet	Laser Marking	RFID	Print & Apply	Temperature Control	Verification Code
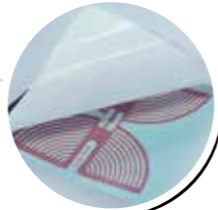
Industries	Pharma	Personal Care	Food & Beverage	Printing & Cards	TRACK & TRACE

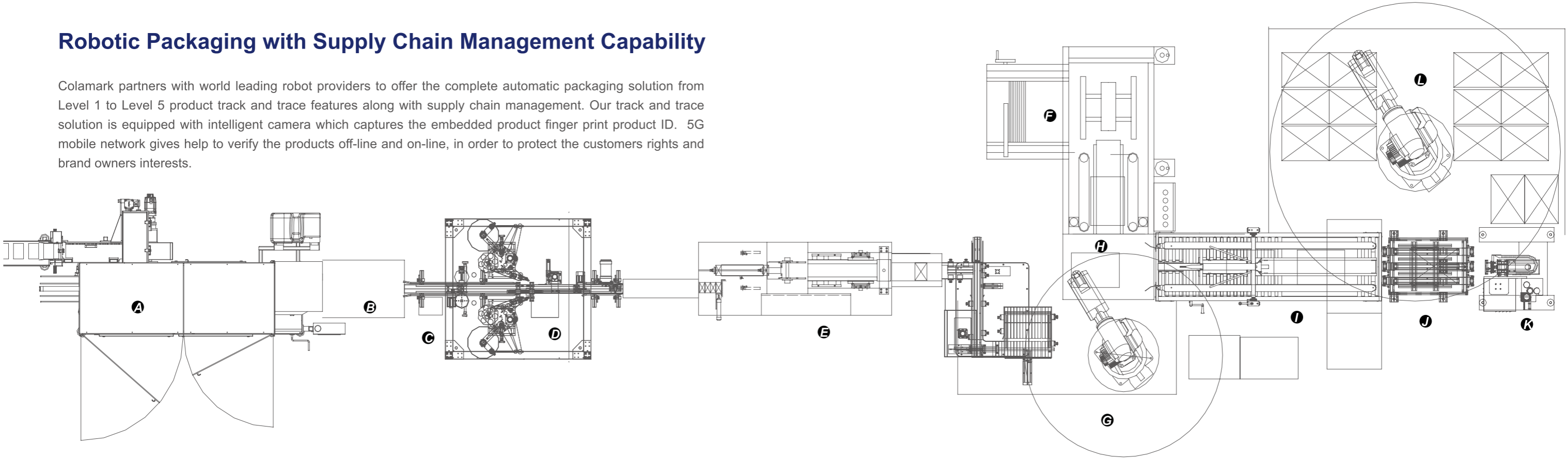| Partners	ABB	ADVANTECH eAutomation	SV SEAVISION	SIEMENS	tracelink NETWORK FOR GREATER GOOD	VIDEOJET
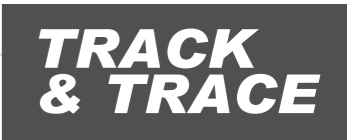
Robotic Packaging with Supply Chain Management Capability

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.

Ⓐ Cartoning

Ⓑ Ⓙ Checkweigher

Ⓒ Laser Marking

Ⓓ Tamper Evident Labeling

Ⓔ Film Overwrapping

Ⓕ Case Eraction

Ⓖ Robotic Casing

Ⓗ Scanning

Ⓘ Case Sealing

Ⓚ Print and Apply

Ⓛ Robotic Palletizing

High Speed Data Capture Station

A high speed servo driven star wheel moves and spins the round bottles intermittently, and the data on the barcode labels is scanned and captured by the high speed line scanner or camera synchronously up to the speed of 150bpm.
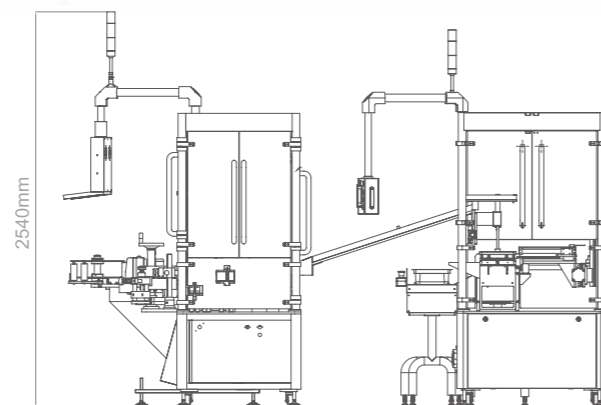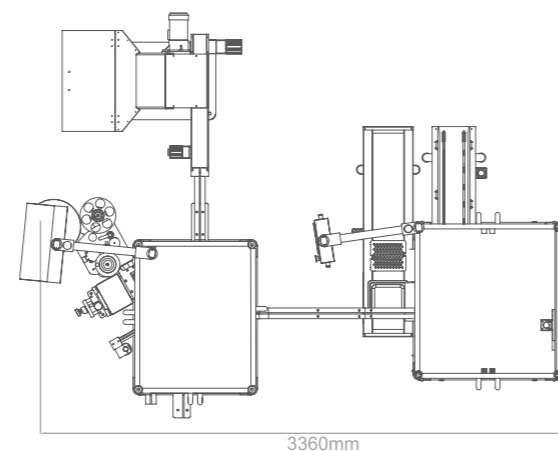
DAC PHM F&B P&C SRL

A33 PHM

DN3 PHM

A33 Plunger-rod Assembly & Labeling System

DN3 Denester

2540mm

3360mm

A11 / A11QC and A33 / A33QC

High Speed Prefilled Syringe Labeling and Plunger Rod Assembly System

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.

Syringes	Φ8.15±0.1 mm；Φ10.85±0.1 mm	
Capacity	A11≤200ppm	A33 ≤300ppm
Labeling precision	±0.3~0.5mm	

Other Complementary Solution for PFS Assembly:

PFS Denester, Visual Inspection Station, Backstop Assembly Machine, Needle Guard Assembly Machine, PFS Blister Packing Machine

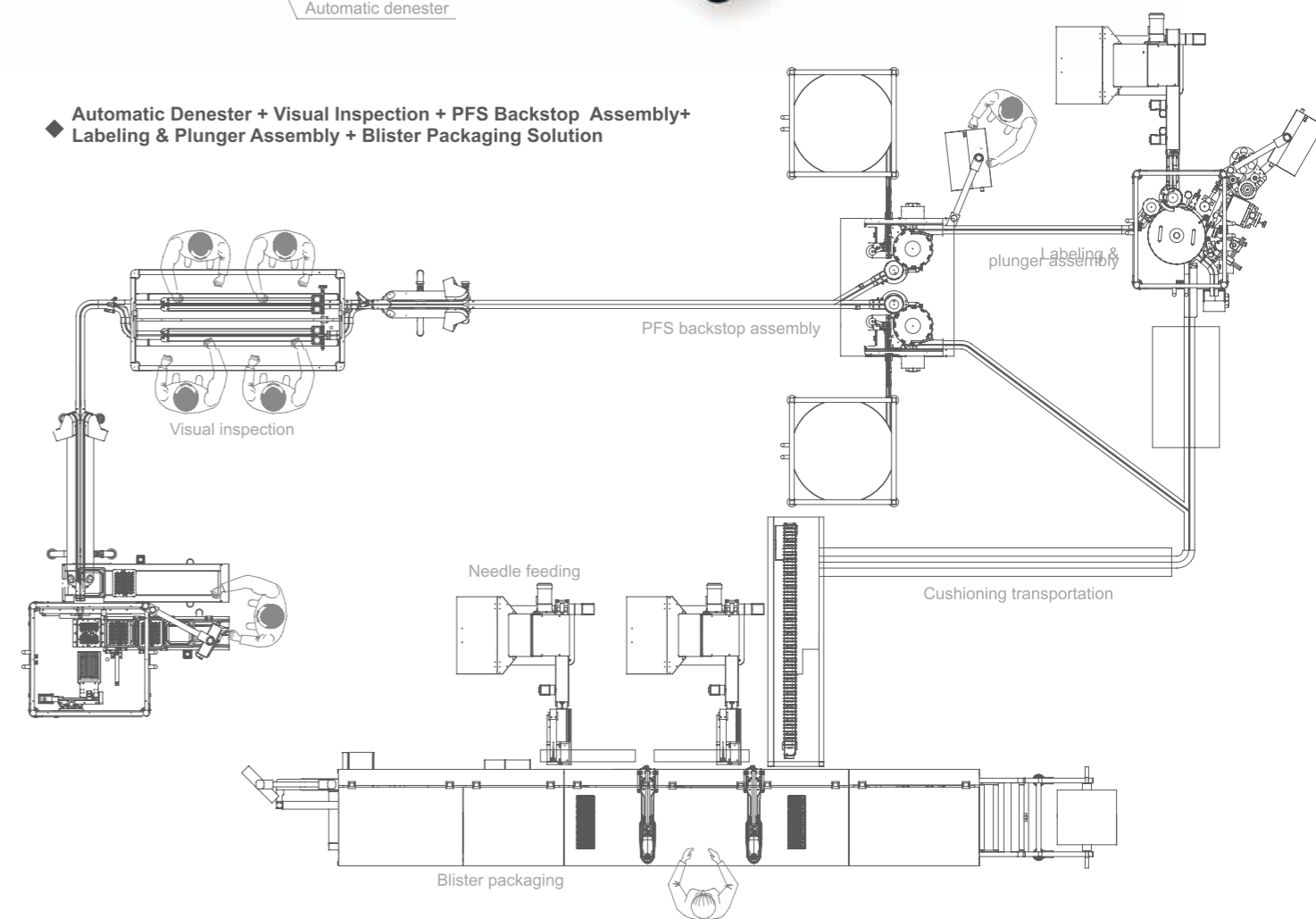◆ **Automatic Denester + Labeling and Plunger Assembly + Blister Packaging Solution**

Labeling & plunger assembly

Blister packaging

Automatic denester

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

Labeling & plunger assembly

PFS backstop assembly

Visual inspection

Needle feeding

Cushioning transportation

Blister packaging

PFS Needle Guard / Backstop Assembly System `PHM`

Disposal of used pre-filled syringes are hazardous if the needle is not covered appropriately. Modern PFS are normally installed with a needle guard which is activated automatically to securely cover the needle upon finished use of the PFS. Backstops are also often used to facilitate injection handling and administration. There are different suppliers and models of needle guards and backstops in the market, and automatic installation of these on the PFS quickly and securely is a challenging task at the PFS filling and finishing line. Colamark offers a range of proven solutions to cater for most common formats of needle guards and backstops in the market. The system can also be connected seamlessly inline between the A11 labeling and puncher rod assembly machine and the B200 blister packing machine.

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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 station semi-automatic lamp inspection system

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. Split-flow, confluence flow conveying mode are also applicable for the layout designs. PHM

Double station semi-automatic lamp 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.

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.

A101
DAC PHM F&B
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.

A201
PHM F&B

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.

A101P PHM
Turntable shown is optional

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.

A102
DAC PHM F&B

A103 PHM

A102 Vertical Trunnion Belt Labeling System for Round Bottles

A102 is designed for high speed and high precision wrap around labeling of large round bottles. The system uses a vertical trunnion conveyor to support and transport bottles in a high density and low linear speed manner. With the use of a high speed wrap belt, the bottles are spinning at high speed on the trunnion conveyor for labeling. Support of the trunnions on the bottle wall ensures stable spinning and a high degree of parallel labeling precision. A servo driven timing screw controls bottle feeding ensuring a quiet and stable operation throughout the process. Particularly suitable for high standard requirement of fully wrap around labeling on thick, heavy, and noise generating objects like large glass bottles.

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.

2290mm

1870mm

1980mm

Scan QR code to
access the product web page

Scan QR code to
access the product web page

Bottle size	Φ50~80mm
Capacity	≤200bpm
Labeling precision	±0.6~1.0mm
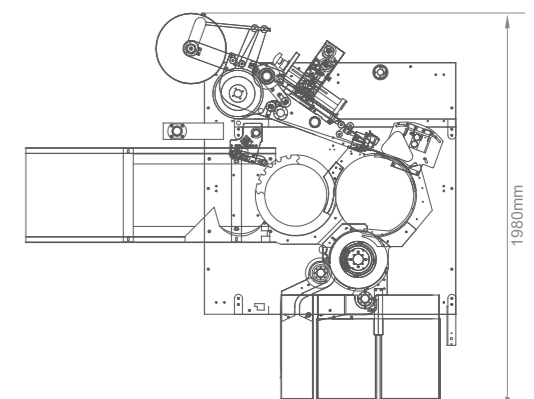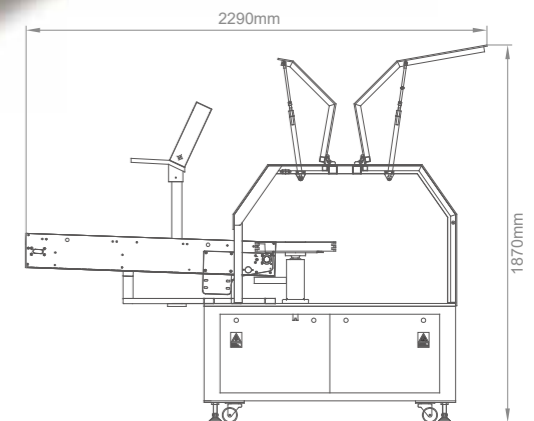
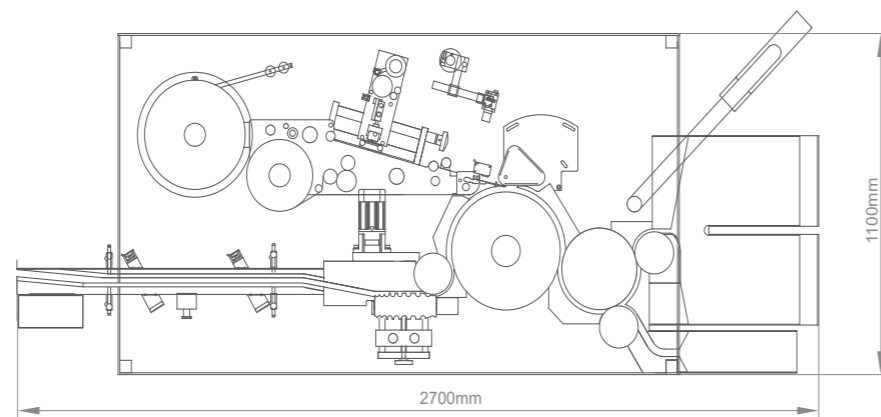| Bottle size	Φ10~30mm
Capacity	≤400bpm
Labeling precision	±0.5mm

A104 PHM

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.

1100mm

2700mm
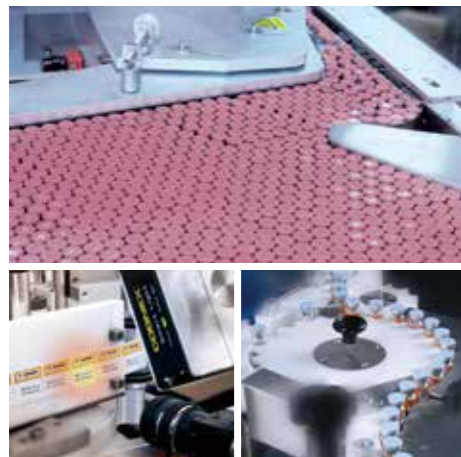
(For reference only. Collection platform is optional)

Bottle size	Φ16~22 mm
Capacity	≤700bpm
Labeling precision	±0.5mm

Scan QR code to access the product web page

A105 PHM

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.

Scan QR code to access the product web page

1990mm

2050mm

1630mm
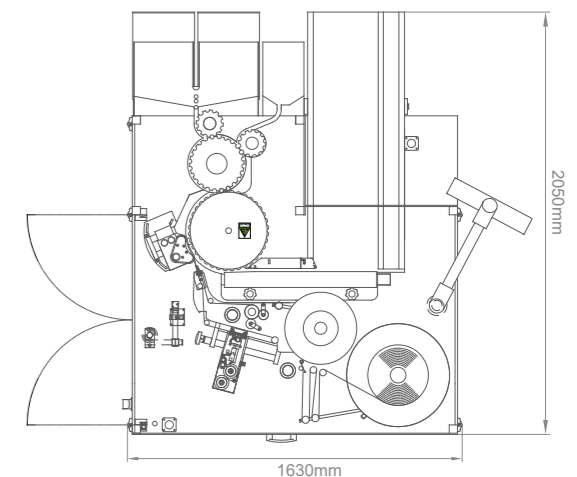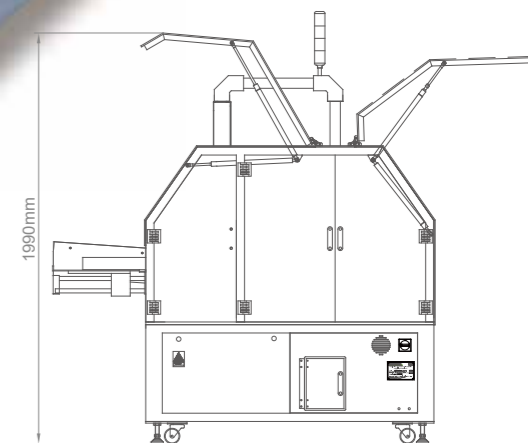
Bottle size	Φ10~30mm
Capacity	≤600bpm
Labeling precision	±0.5mm

3190mm
1440mm
1790mm

A205R Horizontal Wrap-around Labeling System PHM

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

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.

Bottle size	Ampoule	1~20ml	Vials	7~20ml
Capacity	≤700bpm			
Labeling precision	±0.5mm			

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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access the product web page
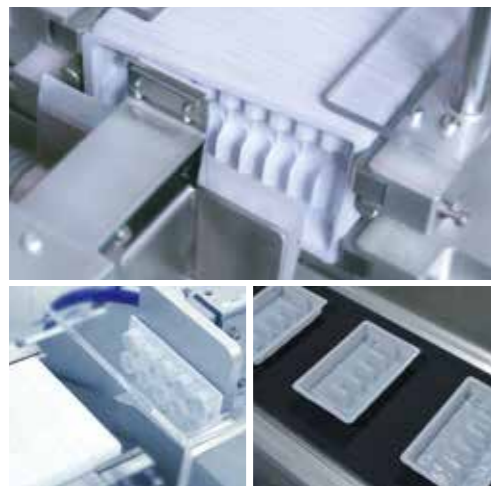
TS1 Horizontal Tray Feeder PHM

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.

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access the product web page

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access the product web page

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

SP5 PHM

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access the product web page

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.

RH1 PHM

Scan QR code to access the product web page

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.

RV4 PHM

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	RH1	RV4
Bottle size	Φ11.5~22mm	Φ14~40mm
Capacity	≤600bpm	≤450bpm

Vertical labeling + tray feeder + horizontal insertion application example

A105 Rotary vertical wrap-around labeling system

RH1 Horizontal tray inserter

TS1 Horizontal tray feeder

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

Vertical tray inserter

Rotary vertical wrap-around labeling system
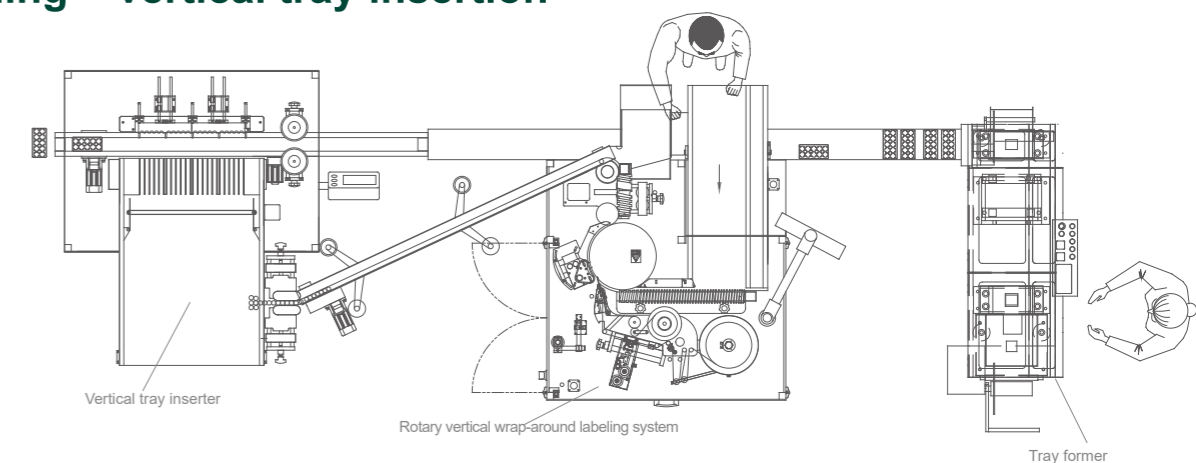
Tray former

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

Horizontal tray inserter

Vertical feeding horizontal Wrap-around labeling system

Tray former
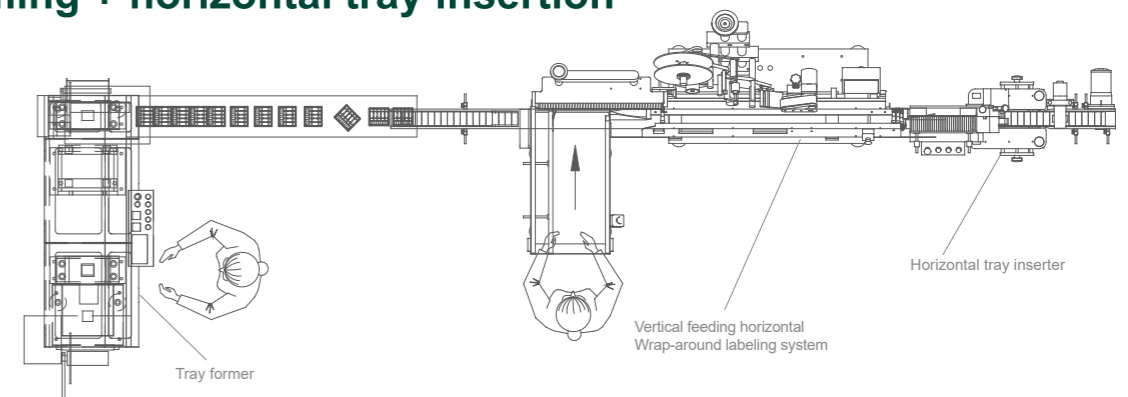
B200 Blister Packaging System PHM

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.
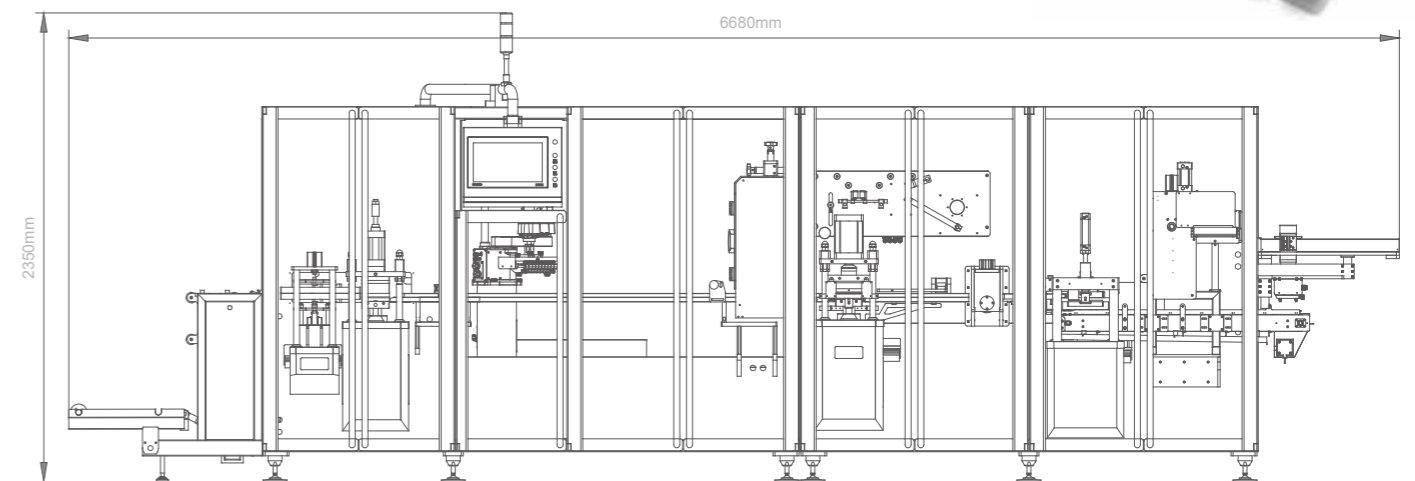
Bottle size	Ampoule 1~20ml	Vials, Test tube	7~20ml	Syringe	Φ8.15±0.1mm Φ10.85±0.1mm
Capacity	≤600bpm				

Bravo

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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access the product web page

Pinto

Pinto High Speed
Servo Cartoning 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.

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access the product web page

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.

Bingo

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access the product web page

Model	Bravo	Bingo	Pinto
Capacity	≤300bpm	≤150bpm	≤140bpm

Tablet Counting & Packaging Line

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 → Weigh checker & metal detector → Desiccant inserter → Capper → Induction sealer → Labeler
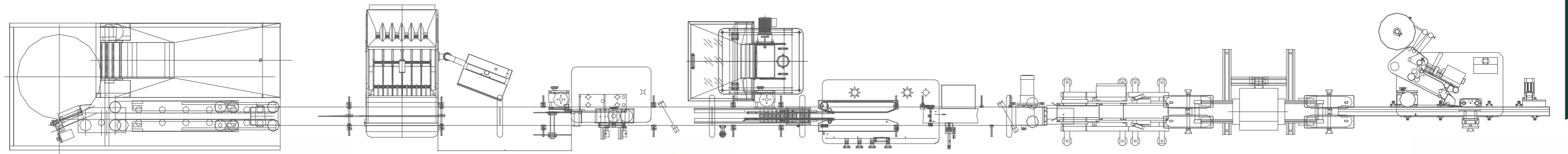
Bottle Unscrambler

Simple design and compact size using a turn table and air jet for bottle selection, Singulate and feed bottles from the bulk on to the main conveyor in an upright manner quickly and reliably.

Desiccant Inserter

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.

Induction Sealer

Using electromagnetic induction effect to instantly generate heat in the aluminum inlay inside the cap which then melts the composite layer on the inlay and forms a perfect seal with the mouth rim of the bottle. In this application we have used Enercon of the U.S.. A range of high quality models of induction sealing equipment from selected suppliers are also available.

Automatic Checkweigher

Measures the weight of the moving bottle accurately at high speed to assess the integrity of the content inside the bottle. For application with higher precision requirement, an extra checkweigher can be used to measure the weight of the empty bottle so that the net weight can be calculated. In this application we have used Mettler-Toledo, A range of high quality models of checkweigher from selected suppliers are also available.

Labeler

Labeling is the most non-standard section of the line due to many bottle shape and labeling modes, and the increasing importance of the information carried on the label. Colamark offers a wide range of labeler models to cater for different bottle shapes including round, square, flat, oval, and conical, and also a wide range of options for label inspection online to ensure the integrity of the label information.

V120

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.

Scan QR code to access the product web page

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.

Scan QR code to access the product web page

BU Series Bottle Unscrambler

Compact and simplistic design, the machine is outfitted with a turn table and air jets for bottle orientation; singulate and unload the bottles from the bulk tank on to the main conveyor in an upright manner efficiently and smoothly.

BU150
DAC PHM F&B

BU120
DAC PHM F&B

Scan QR code to access the product web page

Scan QR code to access the product web page

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.

DR100

Scan QR code to access the product web page

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.

DS200

Scan QR code to access the product web page

Canister Desiccant Inserter

DS150 is designed to handle canister type desiccant. The system uses a vibrating feeder to feed the canisters from the bulk into a single file feeding chute. The canister is then inserted into the bottle as needed. Versatile design to cater for a large range of canister and bottle format. Insertion confirmation and rejection mechanism to detect and reject bottles with missing canisters. PHM F&B
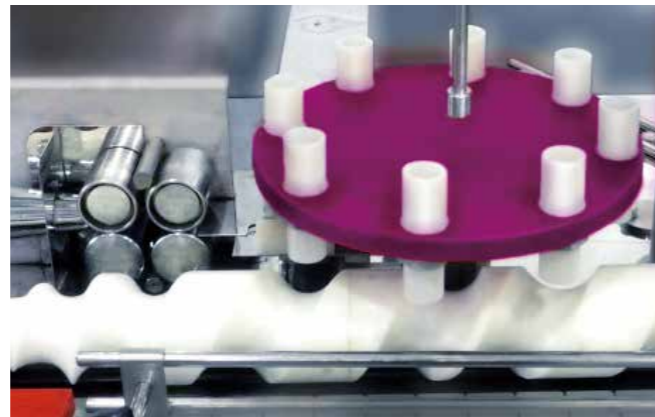
CN1 Cotton Inserter

Cotton cushioning is a common way to protect fragile contents in the bottle from cracking by vibration during transportation. CN1 is designed specifically for inserting cotton strip into the bottle before capping is done. The system feeds cotton strip in roll form, cut that into preset length for insertion into the bottle. Bottles are transferred in a small turn table for cotton strip insertion by a puncher system. The cutting, feeding and transfer mechanisms are designed with flexibility in mind to handle a large specification range of materials. PHM F&B

CF100 PE Film Inserting Machine

PE film inserting machine / inserter can be widely used in the tablet/capsule counting and filling production line of pharmaceutical and health care products industries. PE film has the characteristics of small volume and low cost. A small section of PE film is cut and extruded by the film inserting machine that it becomes a larger wrinkle shaped stopper. It is inserted into the bottle through the intelligent control program, which has a good buffering and stability effect on the bottled products.

CF100
PHM F&B

Scan QR code to access the product web page

CL120
DAC PHM F&B

Scan QR code to access the product web page

CL Series In-line Capper

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.

CL300
DAC PHM F&B

Scan QR code to access the product web page

CL105S
DAC PHM F&B

CL150S Snap Capper
DAC PHM F&B

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.

CR Series Rotary Capper DAC PHM F&B

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.

A910Ti DAC PHM F&B
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-setting 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
Front Labeling System
with Side-serter DAC PHM F&B

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.

A920
DAC PHM F&B

A923T
DAC PHM F&B

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

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

(A)   (B)   (C)   (D)
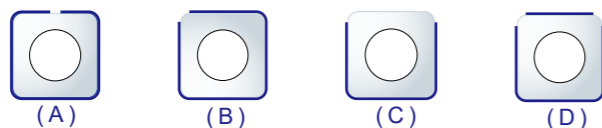
* (D) Needs an additional labeling engine.

Scan QR code to
access the product web page

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.

Scan QR code to
access the product web page

A923 Front/Back and Orientation
Wrap-around Labeling System   DAC PHM F&B

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.

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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, muti-sided or wrap-around labeling on square bottles, high precision labeling, and corner seal labeling etc. Muti-function configuration is can also be achieved most of the time. Following illustrates the typical configuration of the A9 Series.

$A9xyz$

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

z=R,T,U
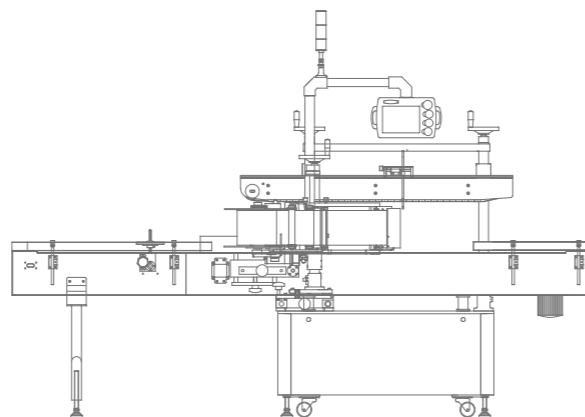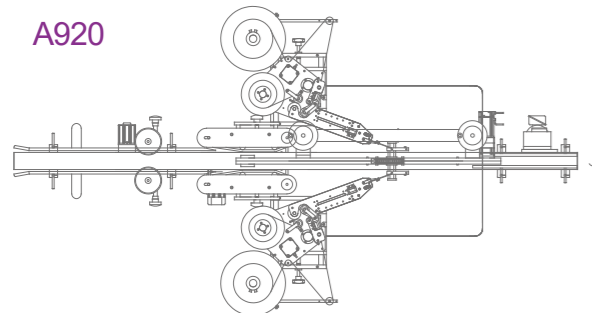R= w/ follow-up turning mechanism
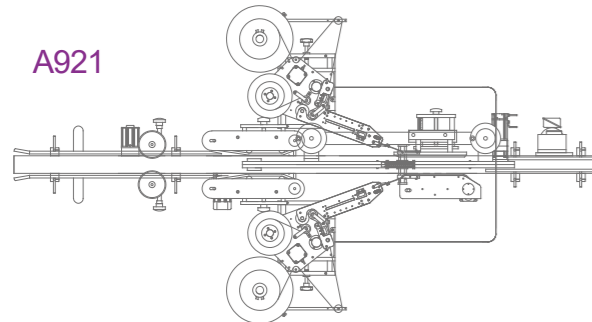T= w/ high precision synchronized swing arm alignment mechanism
U= w/ top labeling

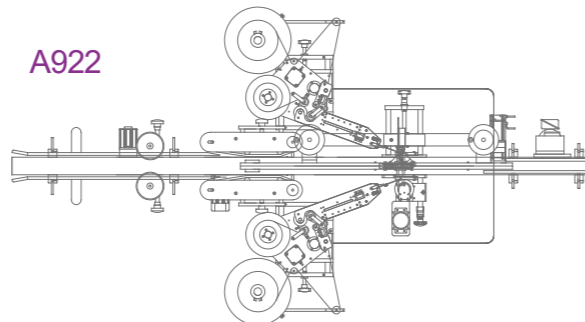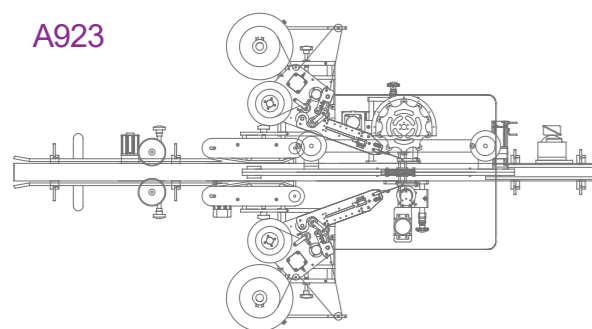Scan QR code to
access the product web page

A920

A921

A922

A923

A923T
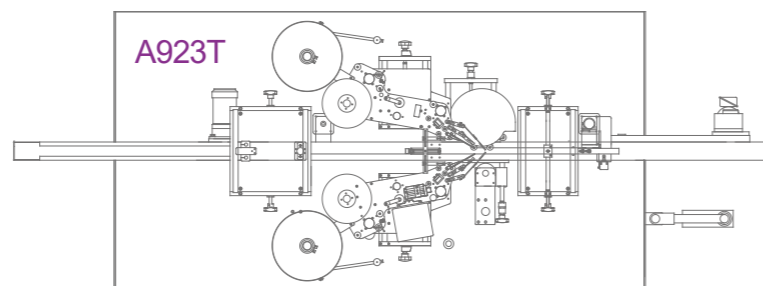
A700

Scan QR code to
access the product web page

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.

1880mm

2250mm
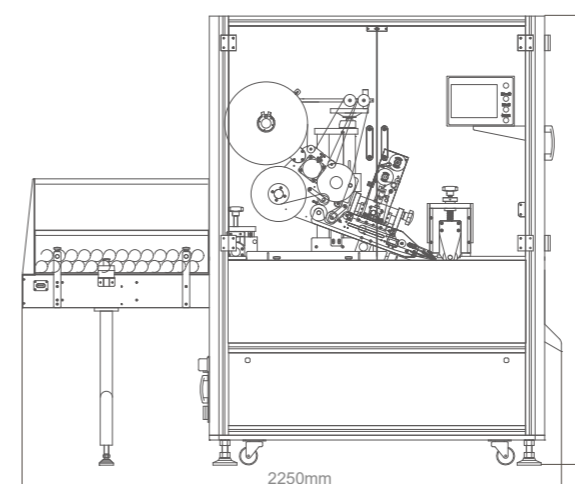
Tube size	Φ20~50mm x (L)20~240mm
Capacity	≤120ppm
Labeling precision	±0.25mm

A107WS

A107WS DAC PHM F&B
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 heave weight.

A117

2000mm

1100mm

A107

2000mm

1100mm
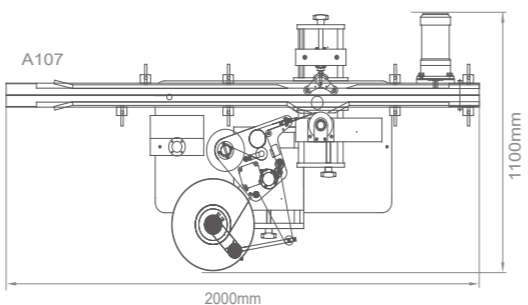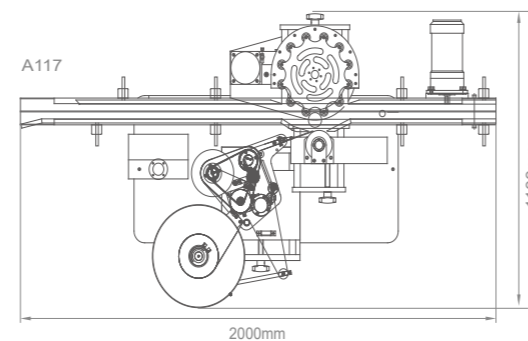
A117

A107/A117 DAC PHM F&B
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.

Model	A107	A117
Bottle size	Φ20~150mm	Φ20~100mm
Capacity	≤80bpm	≤120bpm
Labeling precision	±0.5mm	±0.5mm

A107

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access the product web page

A109HT
Linear transfer
Suitable for products in parallel
alignment from upstream conveyor

A109
Star wheel transfer
Suitable for products in straightline
alignment from upstream conveyor

A109 Series
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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access the product web page

1800mm

2000mm

1060mm

2000mm

A510
DAC PHM F&B

A522
DAC PHM F&B

A520
DAC PHM F&B

A52 Series
Semi-auto Labeling

A52 series is a simple solution for low volume and high precision labeling requirements, particularly for the personal care products, beverages, and pharmaceutical industries.

The A520 handles general wrap around labeling of round bottles with or without orientation, while the A522 for empty soft t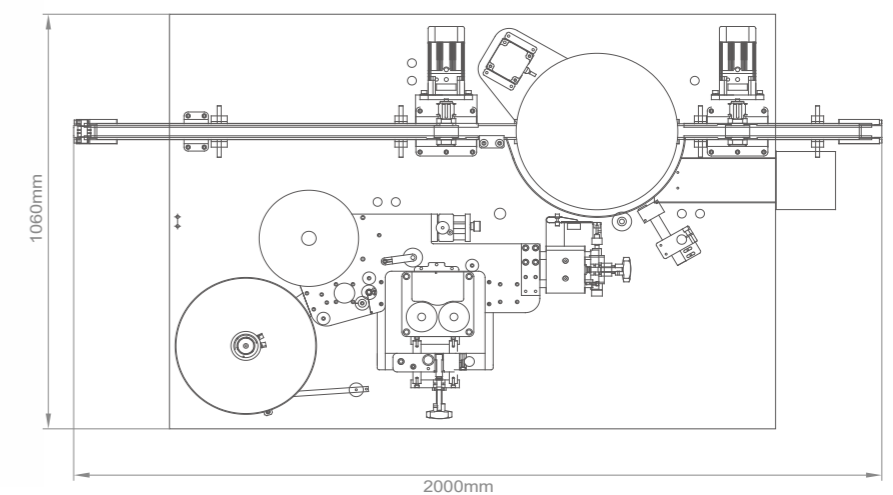ube labeling with the use of an supporting mandrel. The machine is easy to operate and simple to change over between products.

Bottle size	Round bottle	Φ16~90mm	Tube	Φ35~50mm
Capacity	≤60bpm			
Labeling precision	±0.5mm			

A511
DAC PHM F&B

A51 Series Semi-auto High
Precision Labeling Machine

For labeling on small flat surface that requires extra positioning precision such as memory cards, electronic parts, PCB's etc. Unique mechanism to eliminate air bubbles softly to avoid scratching the label surface.

Capacity	≤60ppm
Labeling precision	±0.5mm

A732H
DAC PHM F&B

Top or Bottom Labeling

C Wrap

D Wrap

E Wrap

A731SP
DAC PHM F&B
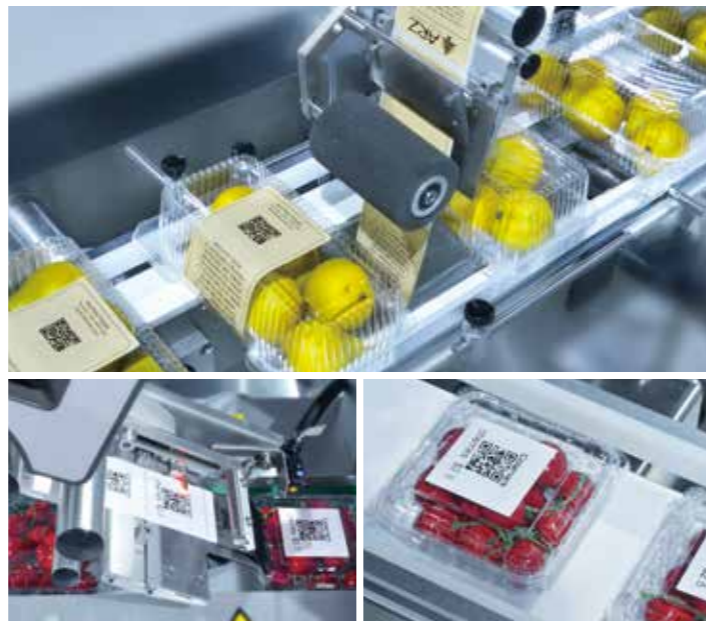
A732H

A732E

A732S

A732D

A732L

A732
DAC PHM F&B

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.

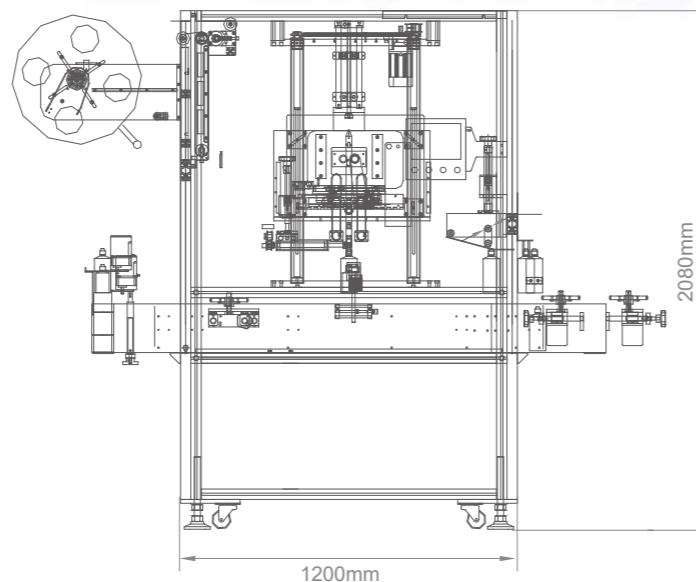Scan QR code to
access the product web page

S30
DAC PHM F&B

S30 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.

Object Size	Φ50~200mm
Capacity	≤300 ppm
Precision	±1.5mm

1200mm

2080mm

RG16
DAC PHM F&B

RG Series 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. Work station spinning achieved by a cam, belt or motor while revolving around a carousel. 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.

2190mm

2230mm

2220mm
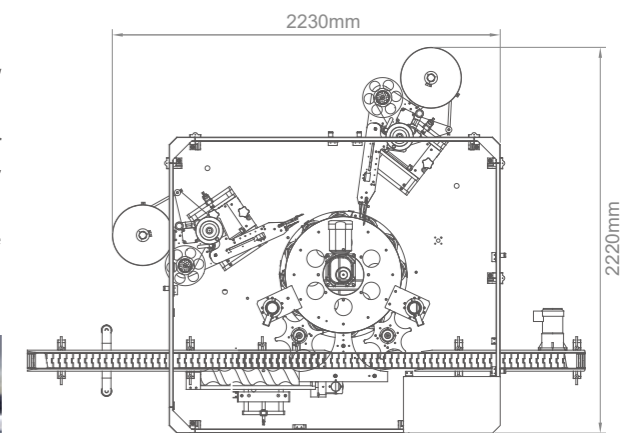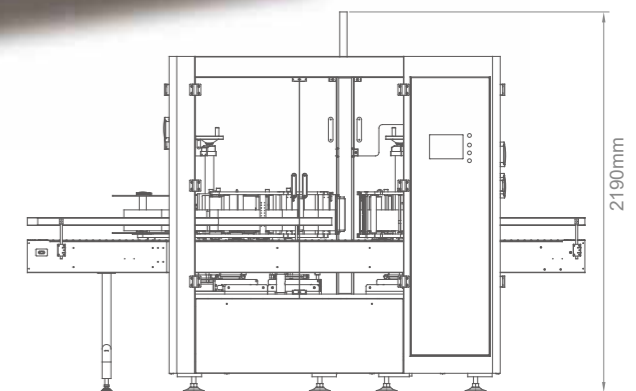
Model	Work stations	Capacity
RG12	12	≤250bpm
RG16	16	≤360bpm
RG24	24	≤500bpm

A202 F&B

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.

Sausage Size	Φ28~69mm
Capacity	≤100 ppm
Labeling precision	±1.5mm

1800mm
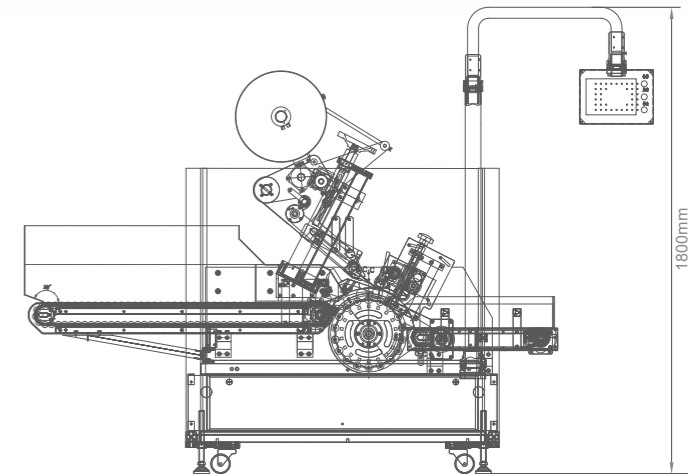
Versmark
Clam Shell Labeling DAC PHM F&B

This is a very unique application based on the versatility of the Versmark system. Clam shells are picked up by rotary feeder, labeled on the top and bottom and affixed a water absorbent pad inside, then stack for subsequent process.

Versmark Series Personalization Platform for Sheet Products P&C

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.

Versmark
DAC PHM F&B P&C SRL

Cardsmark Scratch Card Personalization System P&C

Cardsmark offers three different options to lay the scratch panel on to the card including labeling, rotary hot stamping, and flexo overprinting. With the choices of CIJ, TIJ, DOD or laser for personalization printing and modular design of the system, it offers a large variety of configuration possibilities for different production needs of personalized scratch cards. Vision system is adopted to verify the integrity of the data and the scratch panel. Powerful control software integrates operation and data processing control at one system computer.

Cardswrap Overwrapping and Labeling System P&C

Cardswrap overwraps batches of fan-folded card chain. Installed with a PA6000 printer/applicator and the Cardswrap data printing software, the system puts labels of matched data on to each of the overwrapped packs.

Scan QR code to
access the product web page

Cardspak Card Wrapping System P&C

Cardspak is designed for high speed wrapping of cards of full or half CR80 size using ultrasonic sealing technology. Standard configuration handles up to 300 packs per minute while high speed configuration up to 500 packs per minute.

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access the product web page

Websmark
Roll to Roll Personalization Platform

Scan QR code to
access the product web page

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.

Websmark P&C

430mm

155mm 125mm

i36 DAC PHM F&B P&C SRL

430mm

155mm 125mm

i70 DAC PHM F&B P&C SRL

430mm

220mm 125mm

i70 Duo DAC PHM F&B P&C SRL

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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access the product web page

Cardscheck Print Quality Inspection System for Cards P&C

Cardscheck is developed for the inspection of print registration, color shift, print defects and scratches etc. on printed surfaces. Applicable for standard CR80 and M6 size cards. Inspection on both sides of the cards in one pass. Multiple diversion mechanism can be used to divert cards of different quality defects into different collection boxes. Alternatively, the system can be used for sorting cards of different types into different collection boxes too.

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access the product web page

RP Series Rotary Pick & Place Feeder P&C

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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access the product web page

F Series Card Feeder P&C

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.

Scan QR code to
access the product web page

A188
DAC PHM F&B P&C SRL

LE100
DAC PHM F&B P&C SRL

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 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.

A188T
DAC PHM F&B P&C SRL

LS100 Compact Labeling Engine
DAC PHM F&B P&C SRL

LS100

LS100

Model	Dispensing	Label roll size		Precision
LE100	Max. 50M/min	Width 100~200mm	Diameter 350mm	±0.5mm
LS100	Max. 30M/min	Width 100mm	Diameter 350mm	±1mm
A188	Max. 50M/min	Width 100~200mm	Diameter 350mm	±0.5mm
A188T	Max. 50M/min	Width 100~200mm	Diameter 350mm	±0.5mm
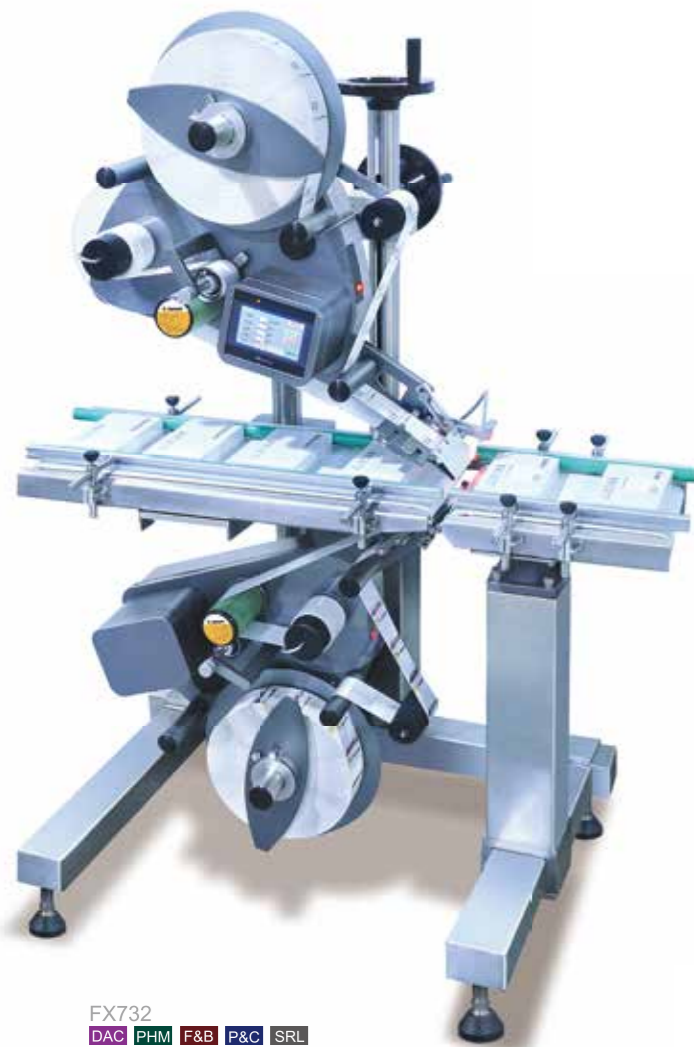
FX Series
Modular Labeling System

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.

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access the product web page

FX732
DAC PHM F&B P&C SRL

FX101
DAC PHM F&B P&C SRL

Application Configurations
DAC PHM F&B P&C SRL
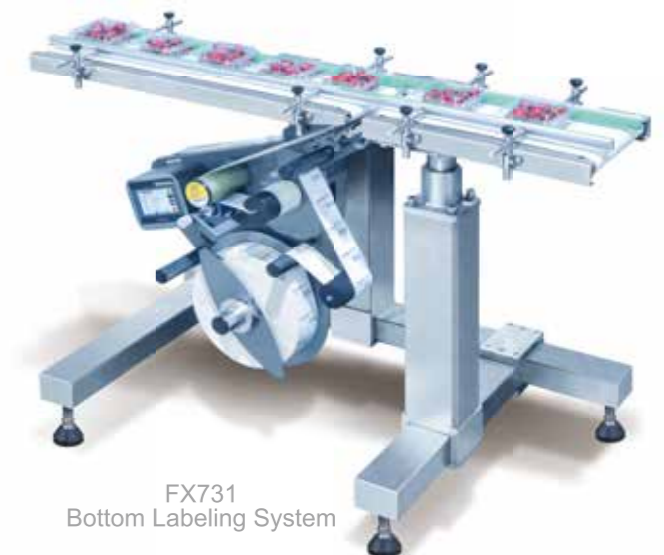
FX741
Top Labeling System

LS100
for Stand-alone Top Labeling

LS100
for Stand-alone Side
Labeling System

FX731C
C-Wrap Labeling System
for Clamshells

FX731
Bottom Labeling System

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` `P&C` `SRL`

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access the product web page

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

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access the product web page

PA6200

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

`DAC` `PHM` `F&B` `P&C` `SRL`

PA6000

Tamp-on application mechanism. Real time data printing. For slow moving or stopped product. Flexible product distance.
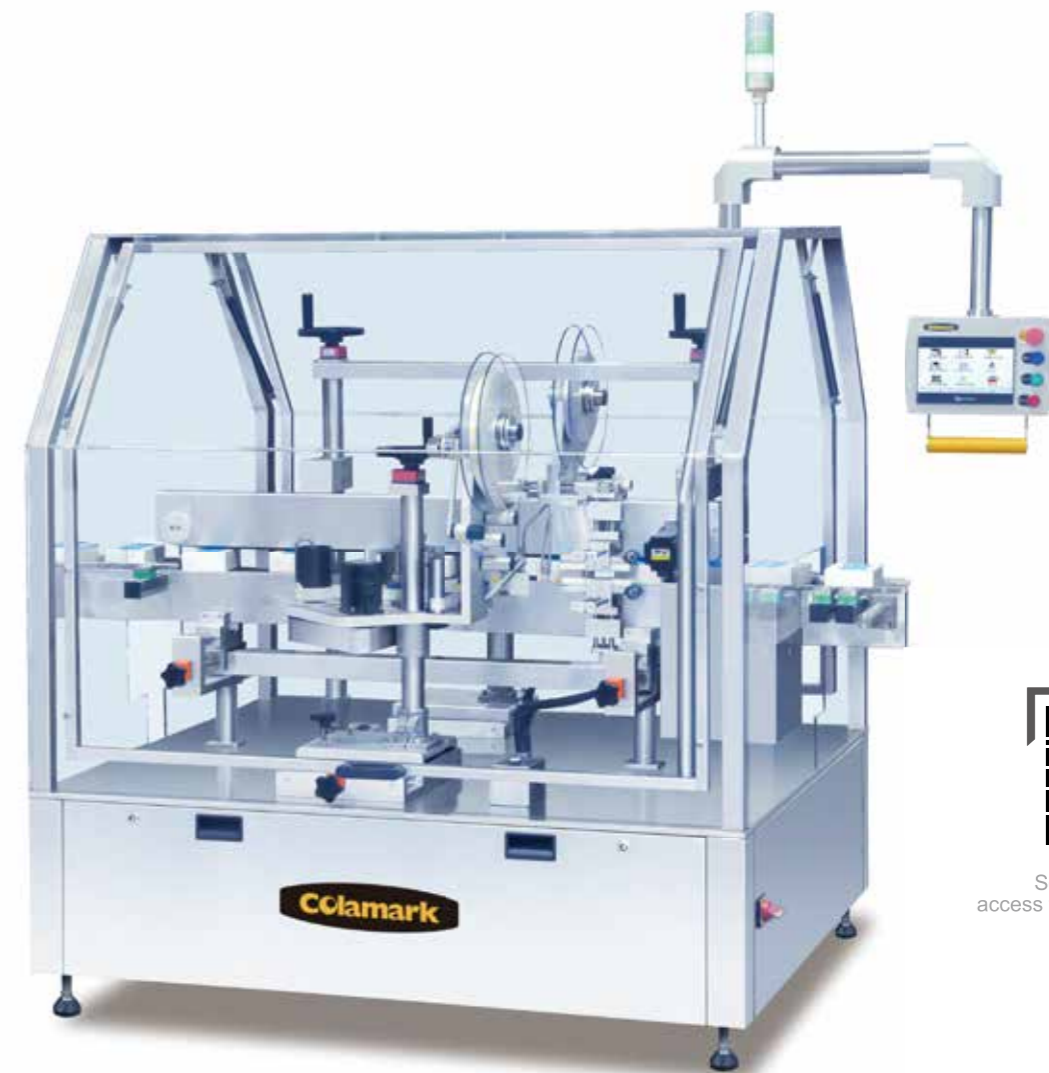
`DAC` `PHM` `F&B` `P&C` `SRL`

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access the product web page

PA6000

A928 Tamper Evident
Labeling System for Small Cartons

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.

2100mm

1280mm

A741 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 sing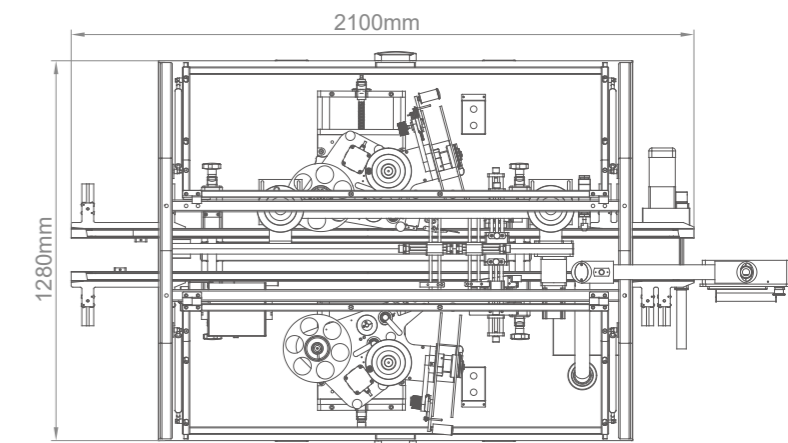ulation, synchronized hold-down belt for transport stability of light weight items, corner wrapping device, thermal printing engine, second labeling engine, inspection and rejection devices for quality assurance or serialization need, and lots more.

CT01A DAC PHM F&B P&C SRL

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

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access the product web page

CT01D DAC PHM F&B P&C SRL

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.

Scan QR code to
access the product web page

CS01 DAC PHM F&B P&C SRL

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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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.
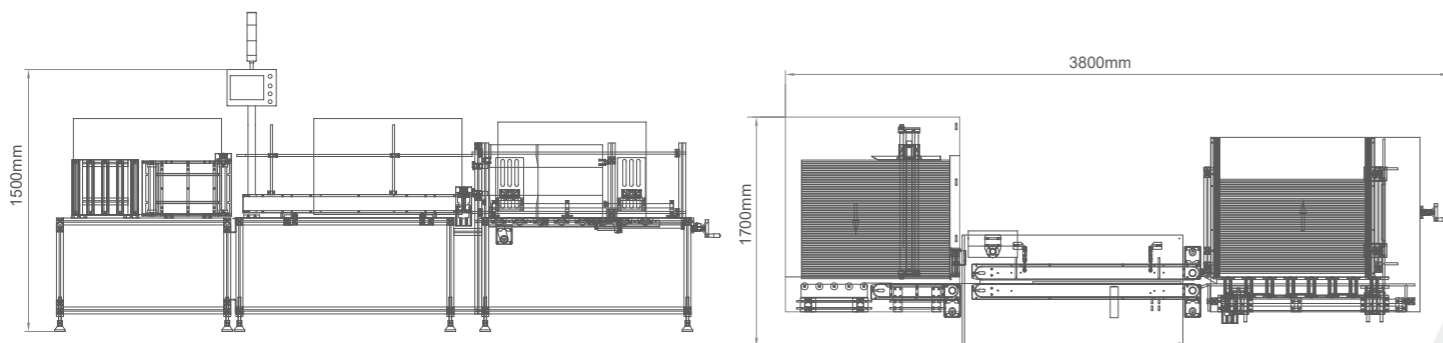
HP TIJ Systems `DAC` `PHM` `F&B` `P&C` `SRL`

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.

Single pen holder
Print height 12.7mm

Double pen holder
Print height 25.4mm

3-pen holder
Print height 38.1mm

4-pen holderPrint
height 50.8mm

A751LC Vertical Flat Carton Transport Platform `DAC` `PHM` `F&B` `P&C` `SRL`

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.

Scan QR code to
access the product web page

3800mm

1500mm

1700mm

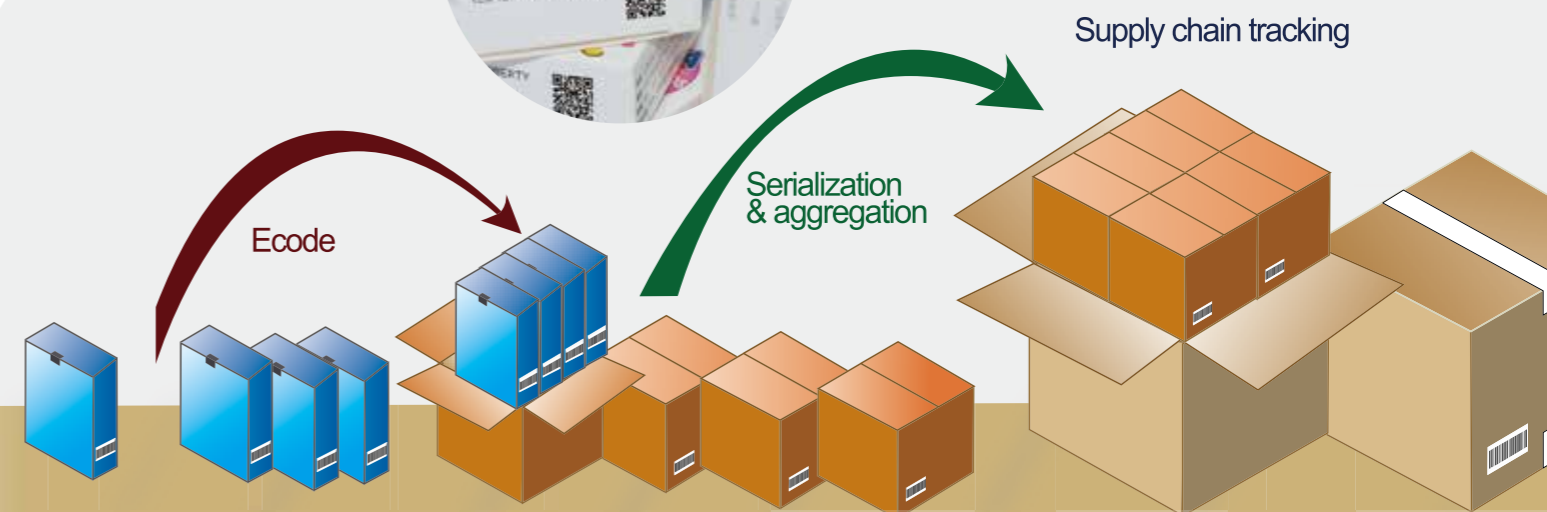| Capacity	3~50m/ min
Labeling precision	±1.0mm

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` `P&C` `SRL`

Scan QR code to
access the product web page

Supply chain tracking

Ecode

Serialization
& aggregation

ERP

MES

Consumer

4.0 IOT

Track & Trace

CRM

Supply Chain Management

Channel Management

Brands Protection

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

Scan QR code to
access the product web page

RW420

RW420V

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.
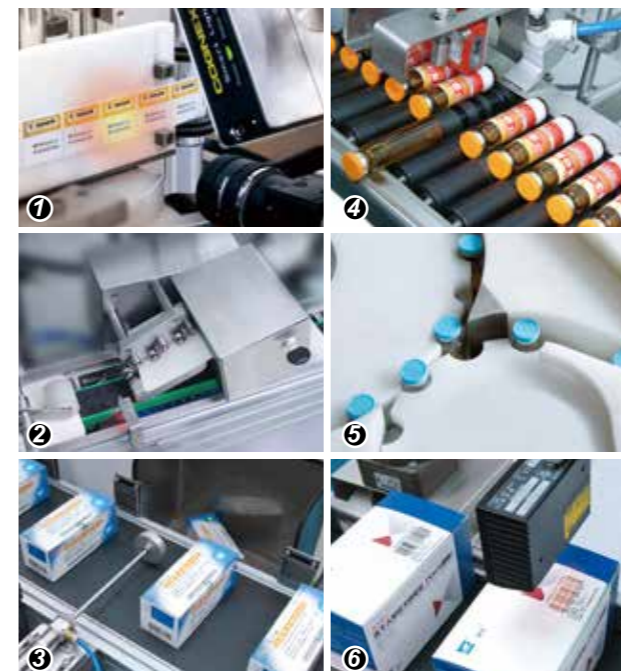
Scan QR code to
access the product web page

|	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
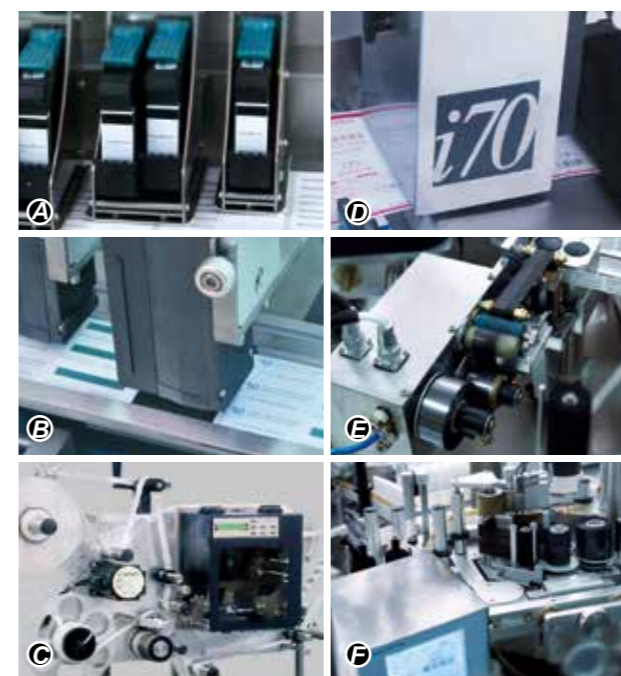
Optional online coding devices

Ⓐ 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
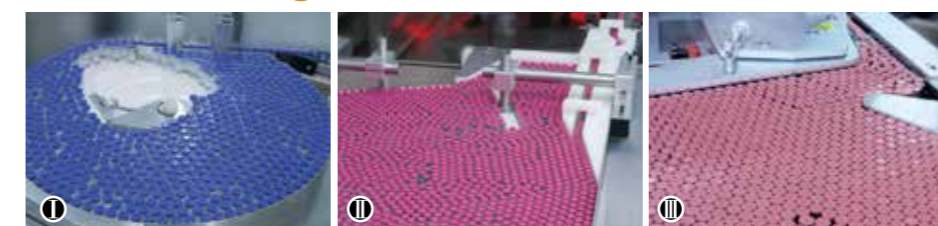
Ⅰ Turntable

Ⅱ Multi-lane buffering conveyor table

Ⅲ Hi-speed loading platform

Labeling │ Counting │ Packaging │ Serialization

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