

OVERVIEW OF THE COMPANY



- Toprint Packaging Sdn. Bhd founded in 2014
- Experience in Offset printing for 28 years
- With 45 years of knowledge in Self-adhesive label printing industries
- 33 years of knowledge in manufactures labeling machine in Malaysia

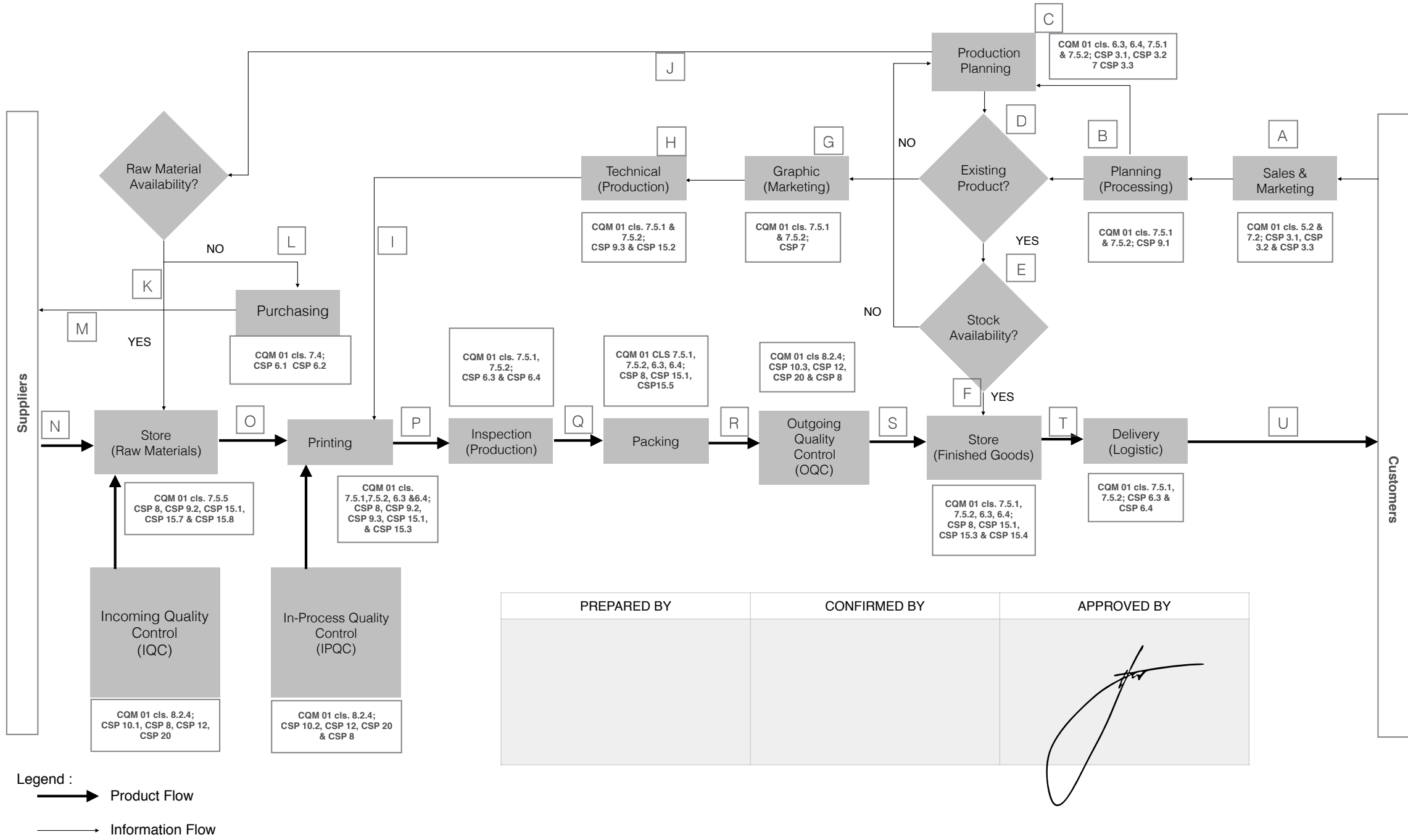
VISION

“ IT IS QUALITY THAT MATTERS”

Our promise to our customer and it is our
key of success.



INTERACTION OF BUSINESS PROCESSES



TOPRINT

Professional Printing
Solution

GLOBAL & REGIONAL CUSTOMER



TOHTONKU



ExxonMobil



Johnson & Johnson



Coca-Cola

LABELING MACHINE INTRODUCTION

The purpose of labeling machine:

The labeling machine is a device that sticks paper or film labels on the specified packaging containers with adhesives.

Applicable industries:

Medicine, pesticides, food, beverages, wine making, daily chemicals, chemicals, stationery, hardware, etc.

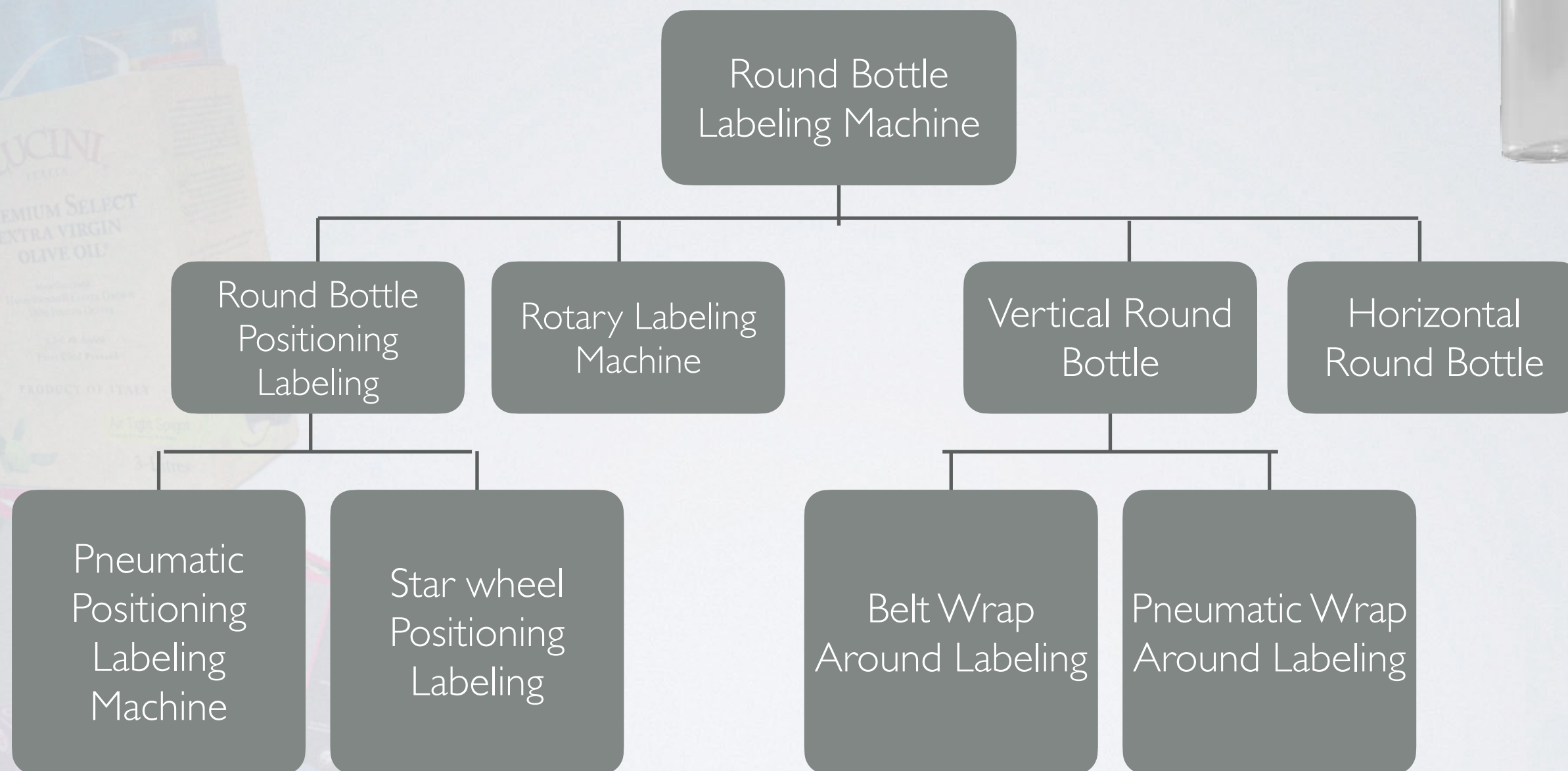
Working principle:

When the sensor sends a signal that the labeling object is ready for labeling, the label feeding wheel on the labeling machine rotates. Since the roll label is in a tensioned state on the label feeder, when the backing paper runs close to the peeling plate and changes direction, the front end of the label is forced to be separated and ready for labeling due to the stiffness of its own material. At this time, the labeling object is just at the lower part of the label, and under the action of the labeling wheel, the synchronous labeling is achieved. After labeling, the sensor on the label sends out a signal to stop the label feeding, the label feeding wheel stops rotating, and a labeling cycle ends.

Advantages of labeling machine:

- 1.Fast speed and high efficiency
- 2.High labeling accuracy and strong stability
- 3.Labeling is smooth and wrinkle-free
- 4.Labor saving and production cost reduction

LABELING MACHINE CATEGORIES



LABELING MACHINE CATEGORIES



Flat Surface Product

Sheet Form Box
Labeling Machine

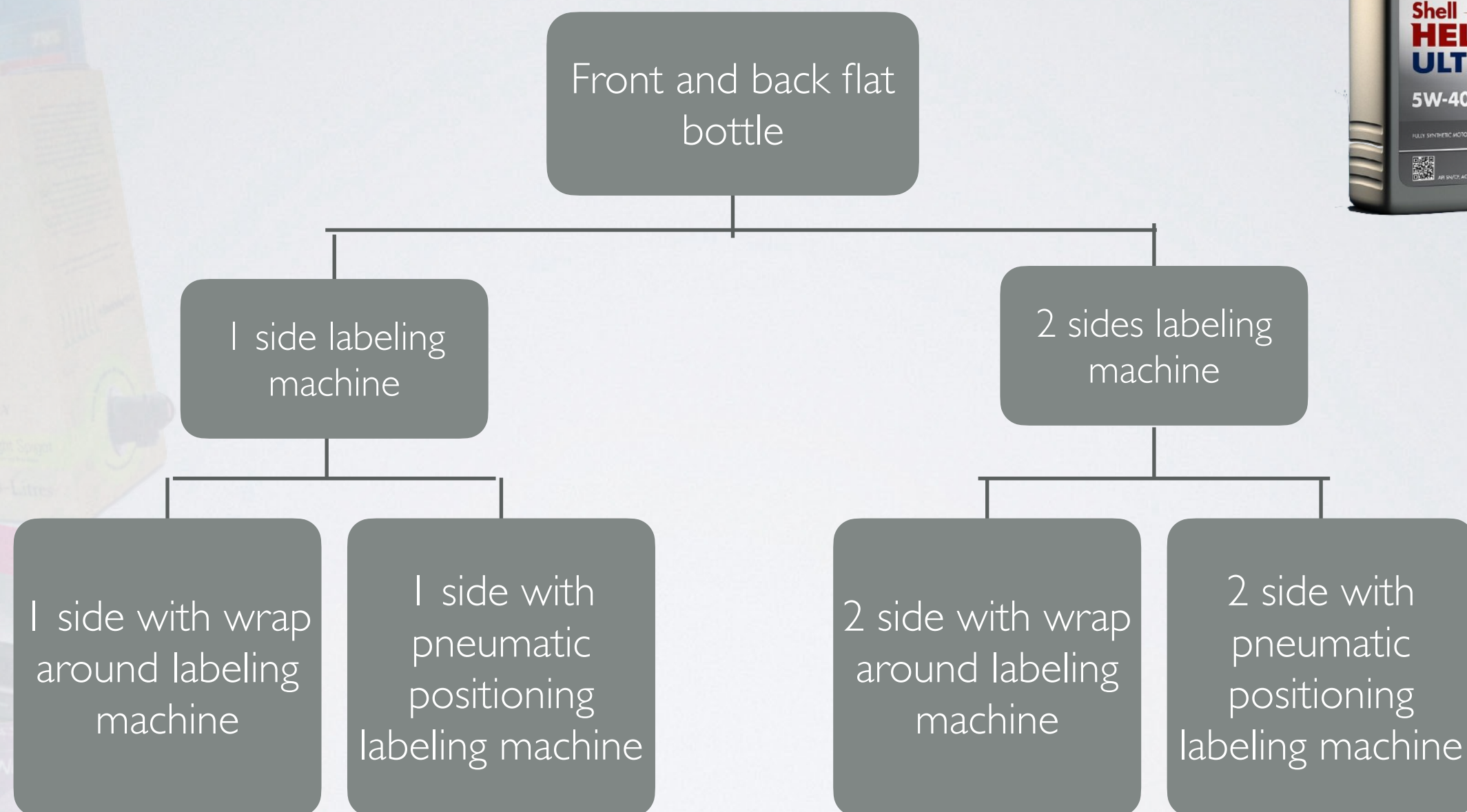
Top and Bottom
Labeling Machine

Top Labeling
Machine

Bottom Labeling
Machine



LABELING MACHINE CATEGORIES



WHAT YOU NEED TO KNOW?

1. Familiar with the technical parameters of the equipment.
2. A clear understanding of the working principle of the equipment.
3. Clearly know the location, name and function of each component's application.
4. Understand the meaning of each parameter of the HMI Touch Screen.
5. Master the adjustment method of each electrical component.

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TP-PWA6150C3.0 SERVO DRIVE PNEUMATIC WRAP AROUND LABELING MACHINE



TP-PWA6150C3.0 SERVO DRIVE PNEUMATIC WRAP AROUND LABELING MACHINE



TP-PWA6150C3.0

SERVO DRIVE PNEUMATIC WRAP AROUND PERFORMANCE

1. Microcomputer touch screen labeling machine, the whole machine adopts imported control system, microcomputer control and touch screen with English and Chinese language.
2. Imported electrical components from world-renowned brands are used to ensure the stability of the whole machine.
3. Rotary labeling unwinding belt, using belt system to make the labeling more flat, firm and wrinkle-free, which greatly improves the packaging quality.
4. Automatic sensor detection, with automatic detection functions such as no label on product, missing label, automatic shutdown alarm when the label is broken, etc to prevent the waste of labels and packaging materials.
5. The machine structure is simple and compact, easy to operate and maintain.
6. The device has a simple and reasonable structure and is easy to operate. The equipment can be easily adjusted according to the specifications and characteristics of the bottle and label adjustment. The selection of this labeling machine has strong adaptability to bottle specifications.

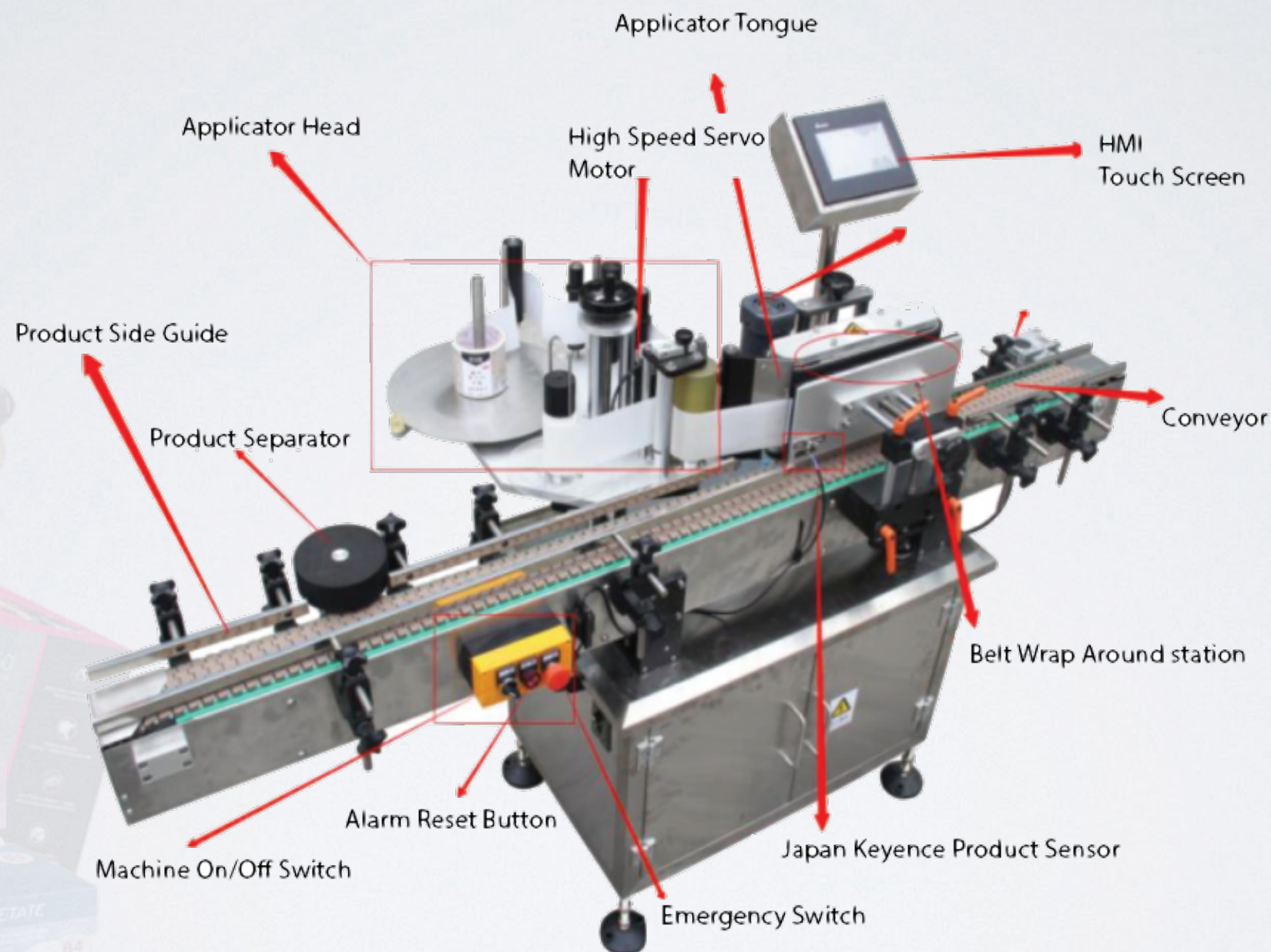
TP-PWA6150C3.0

SERVO DRIVE PNEUMATIC WRAP AROUND

SPECIFICATION TABLE

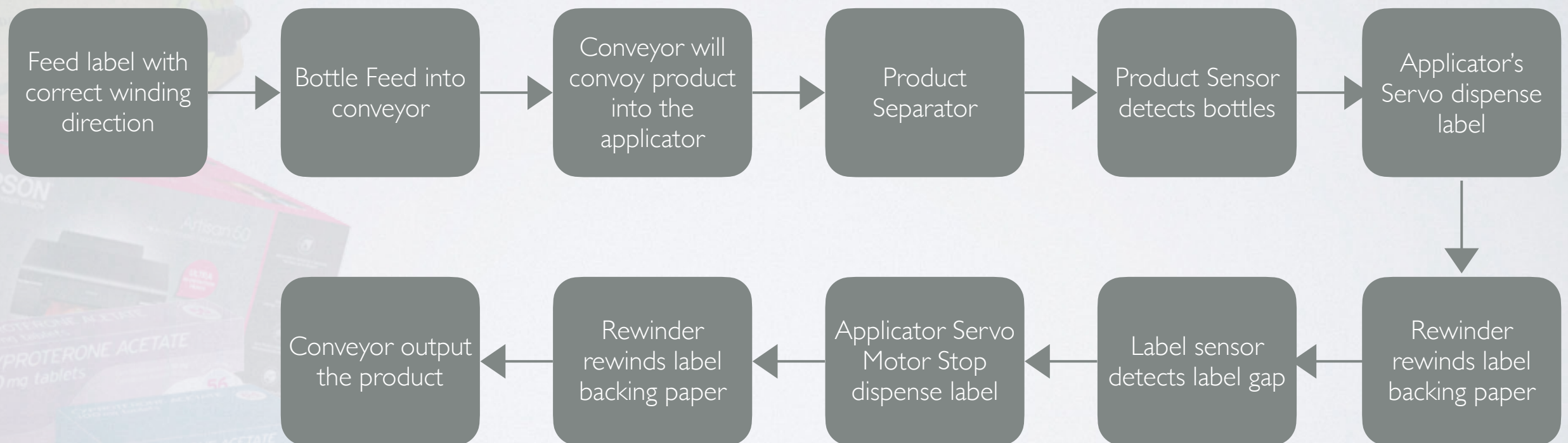
Labeling Output/ Speed	40 - 150 bottle / min (Depends on bottle and label size)
Labeling Accuracy	±1.0-2.0 (Not include product size variation)
Product dimension	Diameter 20-100mm Height 40 - 300mm
Label size	Length 20 - 280mm Height 10-144mm
Label Core size	Diameter 76mm
Maximum label roll size	Diameter 350mm
Machine Dimension	(L) 2000 × (W) 850 × (H) 1300mm
Power supply requirement	AC220V 50/60Hz 1500W
Machine Direction	L to R R to L
Operating Condition	No flammable and explosive gas and dust

TP-PWA6 | 50C3.0 SERVO DRIVE PNEUMATIC WRAP AROUND MACHINE CONFIGURATION



TP-PWA6150C3.0 SERVO DRIVE PNEUMATIC WRAP AROUND LABELING PROCESS

The product is divided into equal distances by the bottle separation wheel. After the controller detects the bottle to be labeled on the conveyor belt through the bottle position detection sensor, it immediately starts the label feeding servo motor to quickly send the label, and cooperates with the label motor action. When the position detection sensor detects the label gap, it stops the servo motor to send the label. At this time, the controller sends a coding signal, the controller counts the labels that have been attached, and at the same time refreshes the display screen, judges the setting values, and issues a prompt alarm in time.



THE ROLE OF EACH COMPONENT

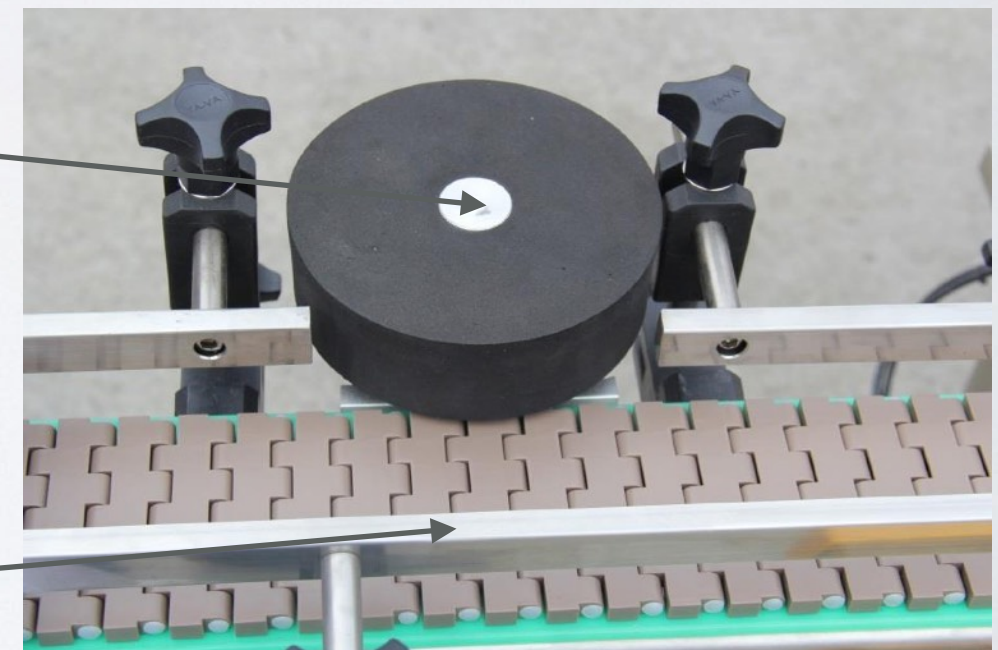
1. Product Side Guide: Make the material move on the conveyor belt along a fixed route.
2. Bottle dividing mechanism: The effect of bottle dividing is achieved through this device, that is, the product is separated from the product by a certain distance (bottle separation distance \geq The length of a label)

Separator
speed
controller



Separator

Product
Side Guide

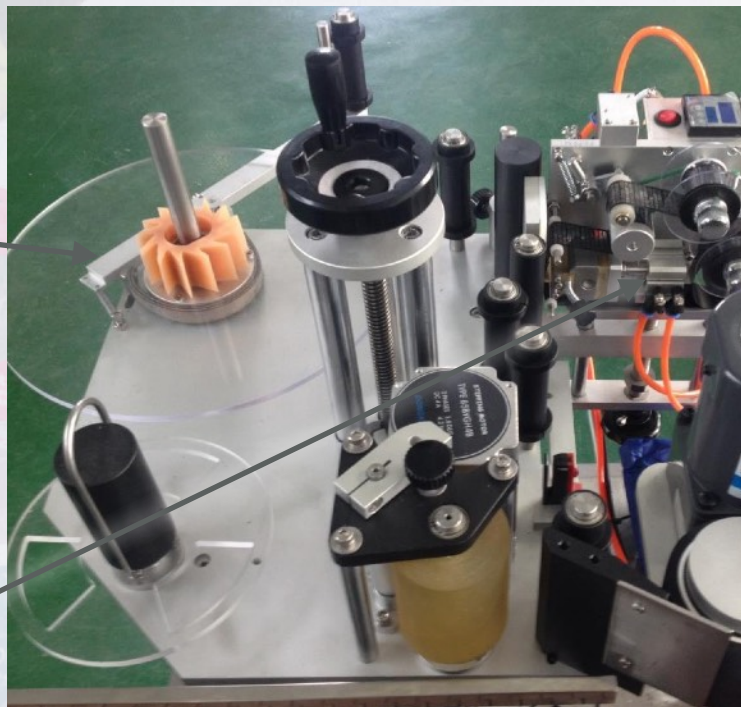


THE ROLE OF EACH COMPONENT

3. Wheel attachment mechanism: cooperate with the label feeder to make the label compliant roll stick to the bottle.
4. Label feeder: responsible for peeling the label from the label roll.
5. Coding machine: responsible for printing the production date, production batch number and other information on the label.

Label unwinder

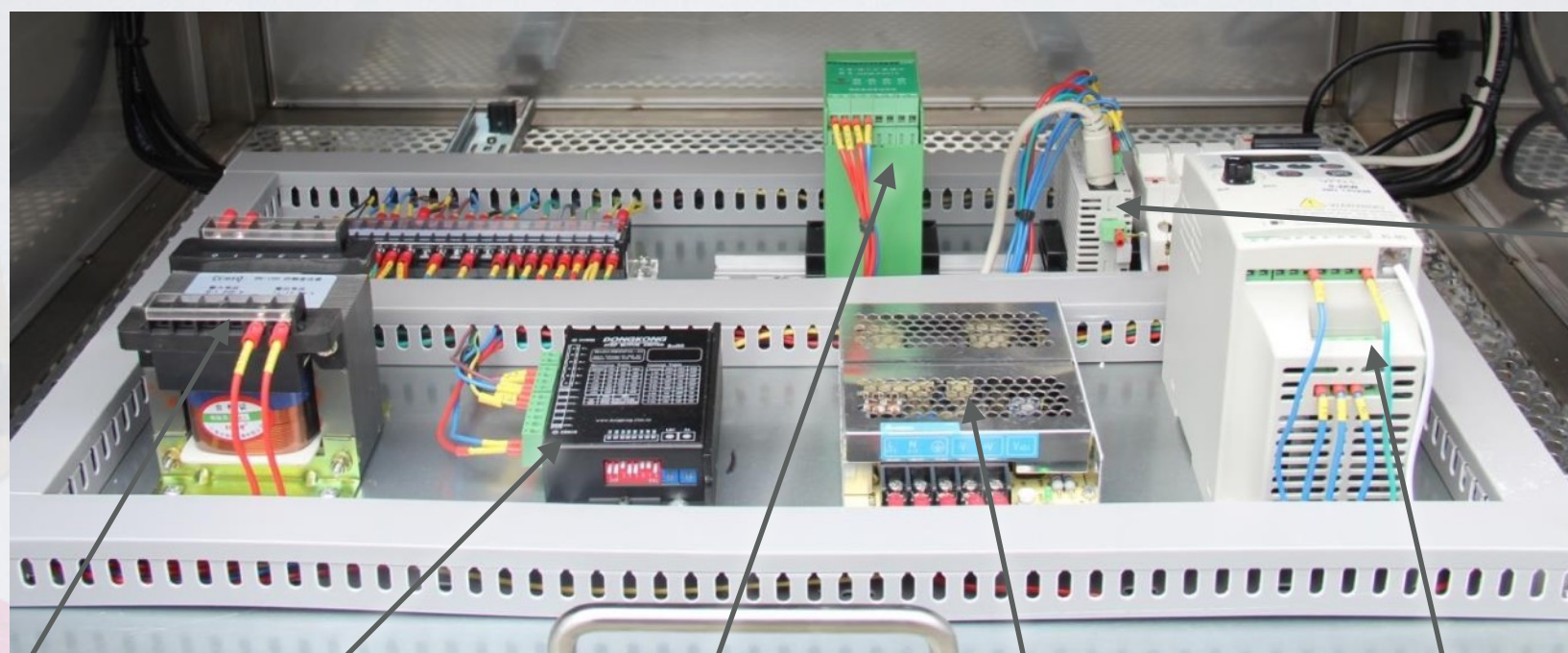
Hot Foil Printer



Belt Wrap Around



THE ROLE OF EACH COMPONENT



PLC Controller

Transformer

Stepper/Servo
Driver

Power Extender

DC Power
Supply

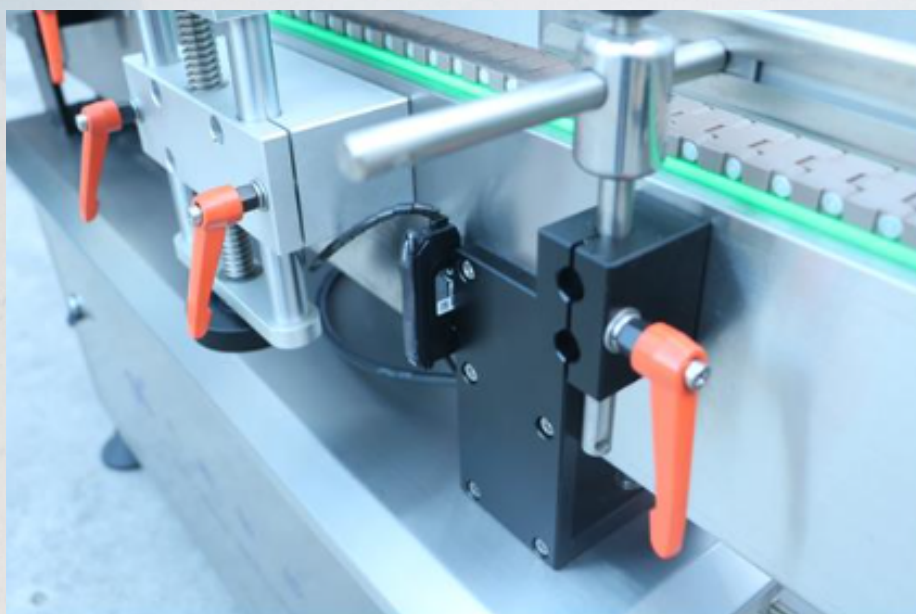
Motor Driver

THE ROLE OF EACH COMPONENT

Retractable
Control panel



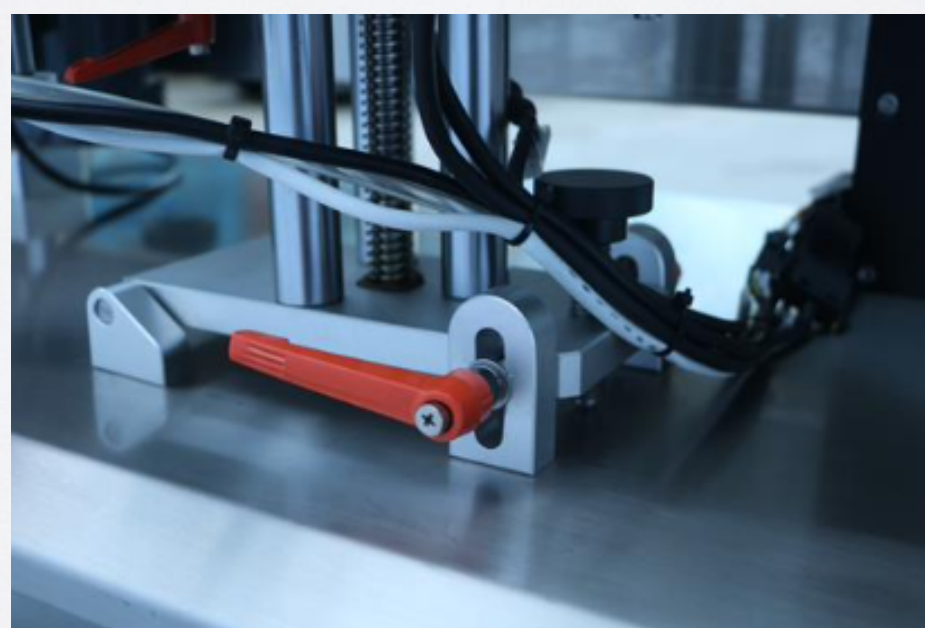
THE ROLE OF EACH COMPONENT



Side Guide Locking
Mechanism



Screw type adjustable
system



XYZR Adjustable
Applicator

HMI TOUCH SCREEN PARAMETERS

Recipe		Auto operation interface				Parameter interface
Counter	000000	B	Set Margin	000000	B	
Counter Reset			Current Counter	000000	B	
current Recipe	0000000000000000		Bottle Speed	000000	B	
Side Label Test	Top Label Test	Top Enter	Top Retract	Language	Code fault using	
Side UP	Side Down	Top UP	Top Down	Push Label Cylinder	RUN	
Alarm Reset		Message Text Message Text Mes...				

No	Button	Description
1	Counter	It represents the cumulative labeling quantity every round. cumulative production can automatically add up labeling quantity every round, the total will not change even turning the machine on and off.
2	Counter Reset	Reset total count
3	Set Margin	Set the total production output limit/requirement. When the machine reaches the total production number, it will automatically stop
4	Current Counter	Shows the current production output without cumulating the previous or last production number.
5	Bottle Speed	Shows actual and current labeling speed.

HMI TOUCH SCREEN PARAMETERS

No	Button	Description
6	SIDE Label Test	Manually test the label out. Check the label out status of applicator 2. (Manual Print Function)
7	TOP Label Test	Manually test the label out. Check the label out status of applicator 1. (Manual Print Function)
8	Top Enter	Manually forward the label applicator head 2. (Position Adjustment)
9	Side Retract	Manually backward the label applicator head 2. (Position Adjustment)
10	SIDE Up	Manually raise the label applicator head 2. (Height Adjustment)
11	SIDE Down	Manually lower the label applicator head 2. (Height Adjustment)
12	TOP Up	Manually raise the label applicator head 1. (Height Adjustment)
13	TOP Down	Manually lower the label applicator head 1. (Height Adjustment)
14	Push Label Cylinder	Switch on Cylinder for side rub down
15	Run	Starts the labeling machine operation (Auto)
16	Code Fault Using	<p>“ON: Stop applicator to operate when no print job on the Print Engine</p> <ul style="list-style-type: none"> - Signal block (Input) - Alarm <p>“OFF: applicator continuous operate even print engine doesn’t have job.</p>
17	Alarm Reset	Reset or clear any alarm sound on the PLC.

HMI TOUCH SCREEN PARAMETERS

Advanced setting	Parameter interface						Back
Side Label Speed	0000	Hz	Top Label Speed	0000	Hz		
Side Label Delay	0000	ms	Top Label Delay	0000	ms		
Side Label Pulse	0000	P	Top Label Pulse	0000	P		
Side Label Position	0000	P	Top Label Position	0000	P		
Side Code Delay	000	0	ms	Top Code Delay	000	0	ms
Side Code Time	000	0	ms	Top Code Time	000	0	ms
Push lable Delay	000	00	ms	Push lable Time	000	00	ms
				Set Conter	00000	B	
Side Label Test	Top Label Test	Side Off	Top Off	Side Code Off	Top Code Off	Push Label Off	

No	Button	Description
1	SIDE Label Speed	Refers to the operating speed of the servo motor, that is, the frequency of the control pulse sent by the controller, in Hz. It controls the labeling speed.
2	SIDE Label Delay	How long will it take to feed the label when the bottle is detected/triggered by the photoelectricity sensor/trigger sensor.
3	SIDE Protect Pulse	Set the label applicator servo motor to protect over pulse dispense. Set it to 9999. The purpose is to avoid over dispense label width of more than 9999 pulses.
4	SIDE Label Position	Set the label pre-dispense length. The higher the input, the more length will be pre-dispensed out. The standard length is 2mm pre-dispense at the tip of the applicator tongue.
5	SIDE Code Time	Set print engine coding delay time. Mainly to adjust the position of the coding/printing on label adhesive.
6	TOP Code Time	Set print engine coding delay time. Mainly to adjust the position of the coding/printing on label adhesive.

HMI TOUCH SCREEN PARAMETERS

No	Button	Description
7	TOP Label Speed	Refers to the operating speed of the servo motor, that is, the frequency of the control pulse sent by the controller, in Hz. It controls the labeling speed.
8	TOP Label Delay	How long will it take to feed the label when the bottle is detected/triggered by the photoelectricity sensor/trigger sensor.
9	TOP Protect Pulse	Set the label applicator servo motor to protect over pulse dispense. Set it to 9999. The purpose is to avoid over dispense label width of more than 9999 pulses.
10	TOP Label Position	Set the label pre-dispense length. The higher the input, the more length will be pre-dispensed out. The standard length is 2mm pre-dispense at the tip of the applicator tongue.
11	Push Label Delay	Set the push cylinder delay time after trigger signal from sensor. To align the rub down position on the product.
12	Push Label Time	Set the push cylinder delay/hold time during rub down time
13	Set The Counter	Set the total production counts requirement
14	Side Label Test	Manually trigger label dispense test on applicator SIDE
15	Top Label Test	Manually trigger label dispense test on applicator TOP
16	Side OFF	Manual switch on the SIDE label applicator or off.
17	Top Off	Manual switch on the TOP label applicator or off.
18	Side Code Off	Manual switch on SIDE Coder or off.
19	Top Code Off	Manual switch on TOP Coder or off.
20	Push Label Off	Manual switch on pneumatic rub down system (Pneumatic)

TP-2S6150C3.0 SERVO DRIVE 2 SIDES LABELING MACHINE



TP-2S6150C3.0 SERVO DRIVE 2 SIDES LABELING MACHINE



TP-2S6150C3.0

SERVO DRIVE 2 SIDES LABELING MACHINE

SPECIFICATION TABLE

Labeling Output/ Speed	40 - 200 bottle / min (Depends on bottle and label size)
Labeling Accuracy	±1.0-2.0 (Not include product size variation)
Product dimension	Width 40 - 180mm Height 40 - 350mm
Label size	Length 20 - 300mm Height 10-180mm
Label Core size	Diameter 76mm
Maximum label roll size	Diameter 350mm
Machine Dimension	(L) 3000 × (W) 1700 × (H) 1500mm
Power supply requirement	AC220V 50/60Hz 1500W
Machine Direction	L to R R to L
Operating Condition	No flammable and explosive gas and dust

TP-2S6150C3.0 SERVO DRIVE 2 SIDES LABELING MACHINE ATTACHMENT



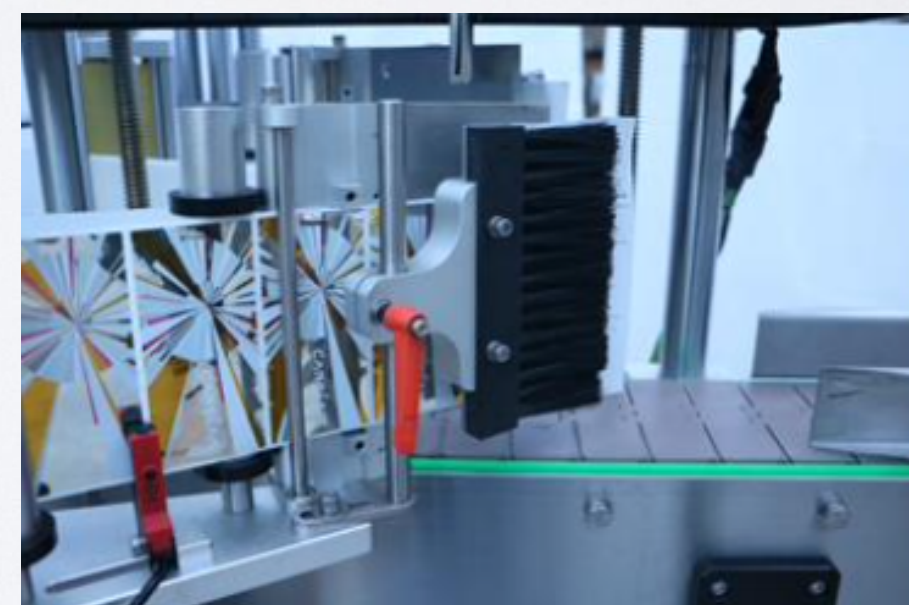
Alignment Station



Top Stabilizer



Top Stabilizer Synchronization
system (Servo)



Applicator Tongue

TP-LOL6150 LABEL ON LABEL LABELING MACHINE



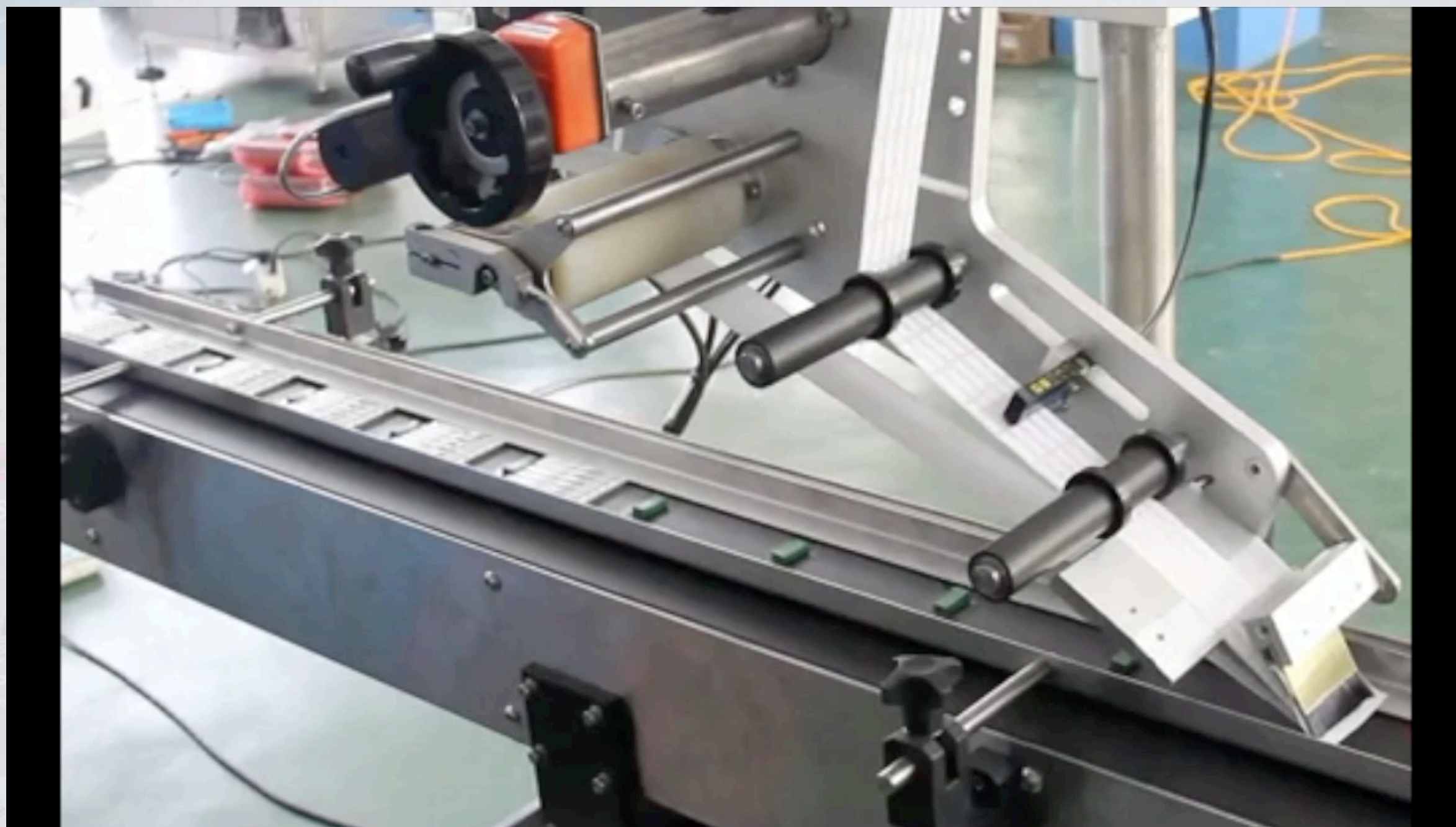
TP-TS6150C2.0 TOP SIDE LABELING MACHINE



TP-2S6150C3.0 2 SIDES LABELING MACHINE WITH PNEUMATIC ALIGNMENT STATION



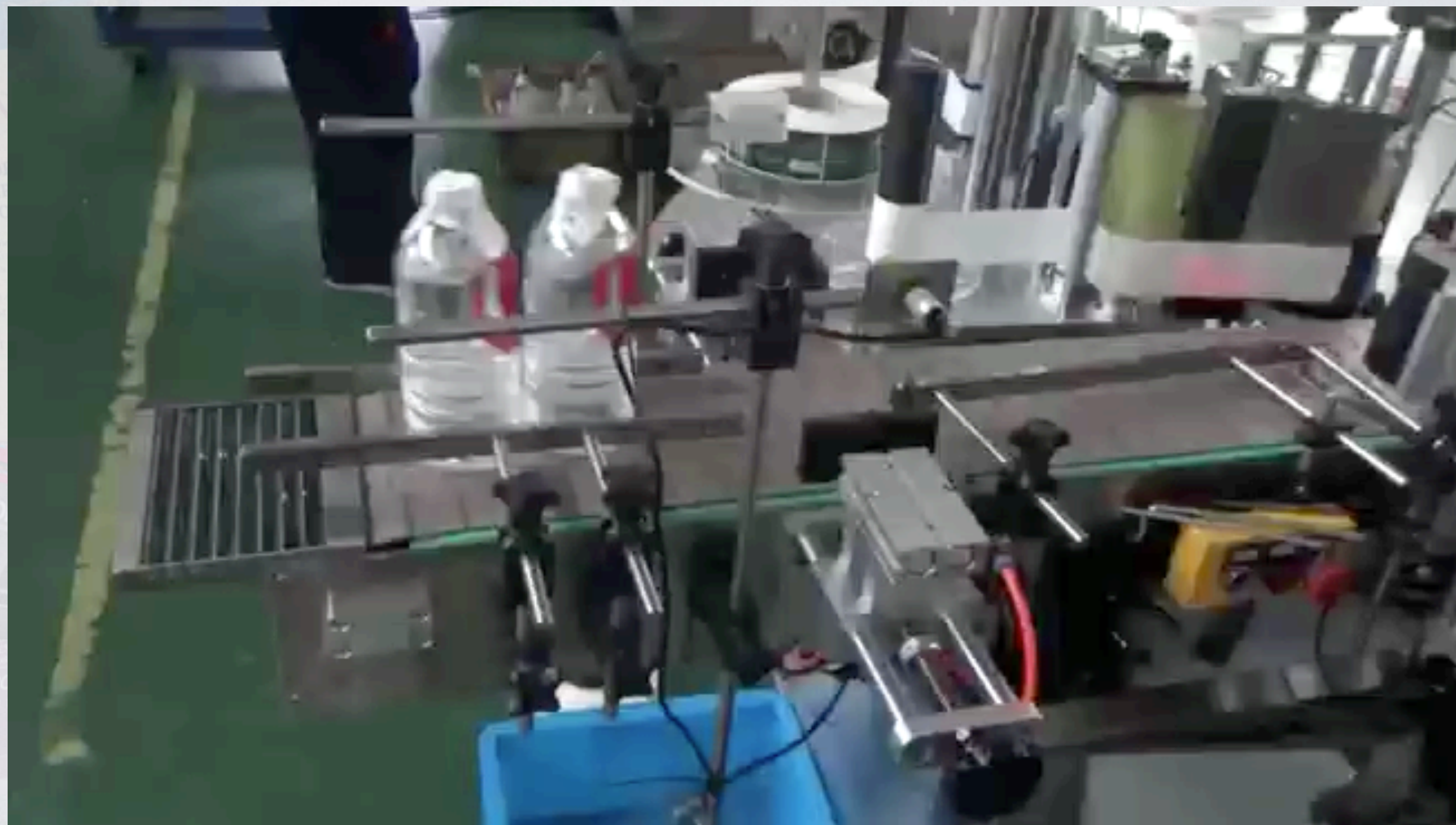
TP-T6150C2.0 TOP LABELING MACHINE WITH PRODUCT JIG



TP-IS6I50C2.0 I SIDE LABELING MACHINE WITH 3 SIDES RUB DOWN



TP-PWA6 I 50C2.0 I SIDE LABELING MACHINE WITH PNEUMATIC WRAP AROUND



TP-TS6150 TOP AND SIDE LABELING MACHINE WITH PRINT AND APPLY LABEL



TP-2S6 I 50C2.0 2 SIDES LABELING MACHINE WITH 100% INSPECTION SYSTEM (VISION CAMERA)



TP-2S6 I 50C2.0 2 SIDES LABELING MACHINE WITH 100% INSPECTION SYSTEM (VISION CAMERA)



TP-IS6I50 | SIDE LABELING MACHINE INSTALLED ON CUSTOMER CONVEYOR



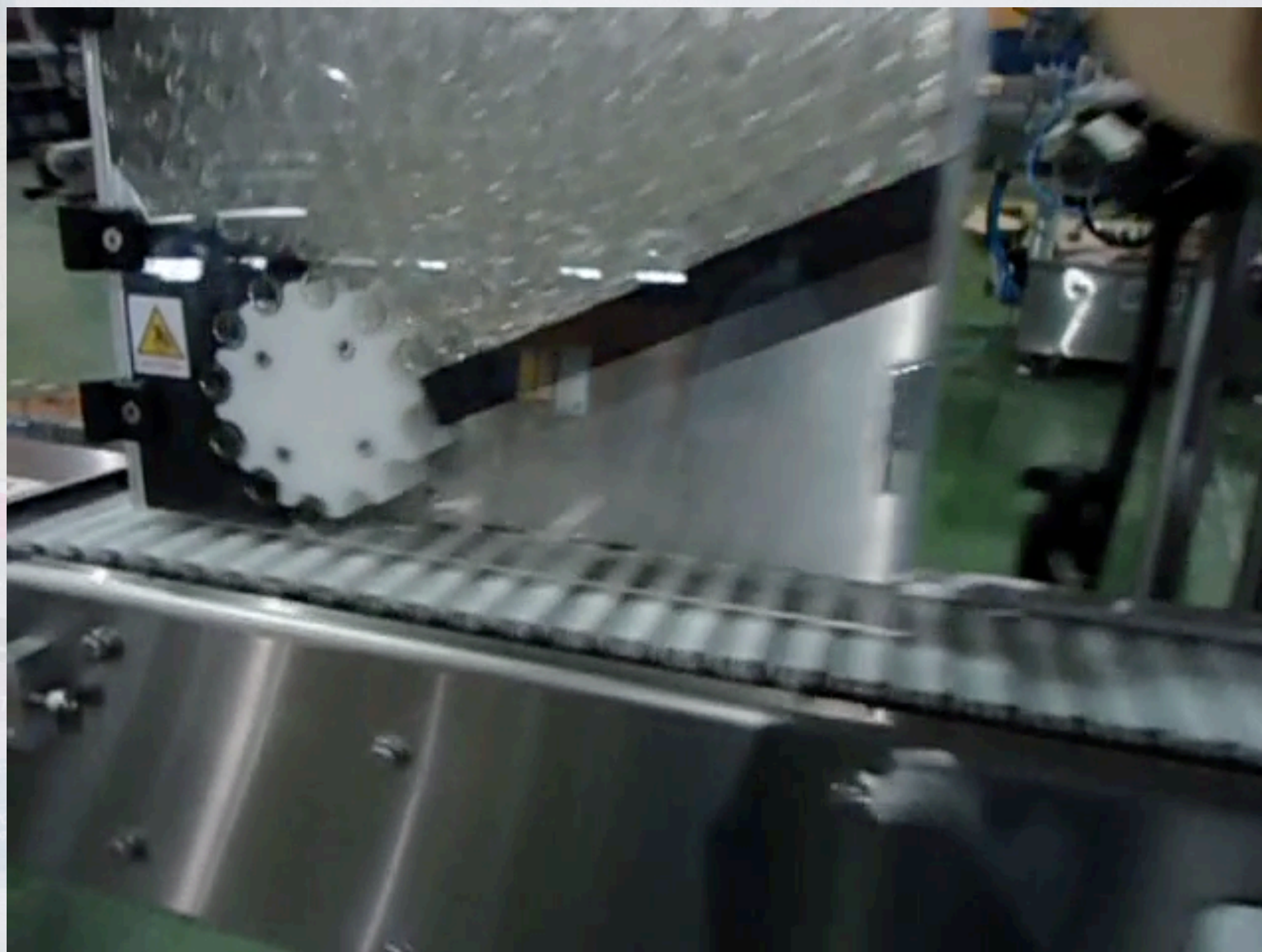
TP-IS6150 | SIDE LABELING MACHINE WITH PNEUMATIC WRAP AROUND ON PAIL



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TP-T6 I 50 TOP LABELING MACHINE BELT WRAP AROUND



LABELING CO-PACKING SERVICE



LABELING MACHINE MANUFACTURING



AUTOMATIC GUIDED VEHICLE SYSTEM (AGV)



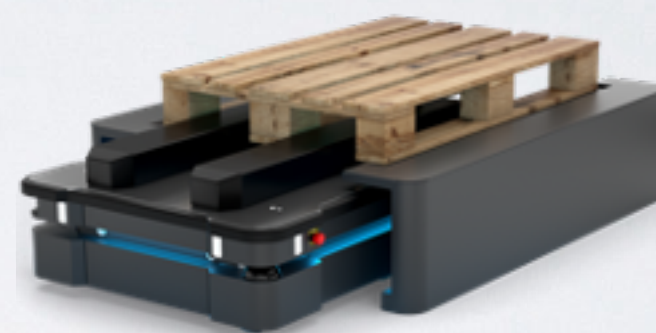
AGV back to parking station and wait for next item to be place

VIDEO LINK

https://www.youtube.com/watch?v=w_LjzP4SyjA

AGV SYSTEM SUCCESSFULLY
INTEGRATED INTO WAREHOUSING
FACTORY

AUTOMATIC GUIDED VEHICLE SYSTEM (AGV)



MISSION STATEMENTS

- To be a progressive organization providing products & services of superior quality and reliability
- To constantly pursue in R&D & pioneer into technological excellence
- To excel in everything we do

FUTURE PLANS

- Continuously expanding our core business in printing of offset boxes and flexible packaging
- Expanding the capability of printing machines in Toprint Malaysia
- Enhanced R&D operations for both printing and finishing technology

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TOPRINT'S DETAILS



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- **URL : www.toprint.com.my**
- **Company No. : 1100574-A**
- **Address : No. 7, Jalan BA 3/4, Kawasan Perindustrian Bukit Angkat 3, 43000 , Kajang Selangor, Malaysia.**
- **Bank : RHB Bank**
- **RHB 2-12282-00037605**
- **Swift Code : RHBBMYKL**

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THANK YOU

As always "It is Quality that Matters"