

# High Speed Integrated Capsule Packing Line



## **JF-2000 High Speed Automatic Unscrambler**



### **Working Principle**

Ladder send bottle device will continuously to unscramble bottle tube, unscramble bottle tube inside the wheel by the driving of the drive gear rotate counterclockwise, tube inside the bottle under the action of centrifugal force, fall into the wheel groove, wheel groove bottle by the rotation of wheel drive, through the bottle plate and the bottle bottles from the device to unscramble bottle device, bottle held bottle device under a pair of synchronous wheel clamping bottles from.

In the process of to help bottle device, the bottom of the bottle in front of the bottle to rotary bottle device was self-righting (bottle) upwards, in front of the bottle by the hook rod dial and pressure bottle device block, the bottle into the bottom of the bottle before, and also be automatically centering rotary bottle device.

## **Main Features**

### ◆ JF-2000 High Speed Automatic Unscrambler

- (1) Strong compatibility, can be applied to all kinds of size specifications of round, square, flat square, special-shaped plastic bottles.
- (2) Special reason on the structure and structure, fast out of bottle speed, can ensure high-speed bottling line for bottle needs.
- (3) Scientific unscramble bottle control system, to avoid the collide with each other within the salt bottle barrel caused damage in the bottle.
- (4) Fully automatic operation, spreading and fluctuation process intelligence, without specialist operations, saving artificial.
- (5) Has function of eliminating pour bottle, with the bottle detection, and ensure the bottle on the right condition to the next step.

## **Main Technical Parameter**

Bottle type: 15-500ml round, square, flat square, special-shaped plastic bottles

Production capacity: 40~150 bottles per minute

Power supply: AC220V 50Hz 0.6kw

Overall dimension: 2400X1050X1450mm

Weight: 550kg

## Main configuration

### JF-2000 High Speed Automatic Unscrambler

NO	Name	Manufacturer
1	Motor	TQG(Taiwan)
2	See bottle of photoelectric sensor	Panasonic
3	Electric leakage protection	Schneider
4	Switch button	Schneider
5	Main Control Board	PLC Adopt Delta-China
6	The man-machine interface	Adopt Delta-China

## **JF-48 Electronic counting machine**



The block bottle device on the passing bottle-track of the conveying bottle system make the bottles which came from the previous equipment stay in the bottling position ,waiting to be filled in .The medicine goes into the medicine container in order by the vibration of the feeding corrugated plate.

There' s a counting photoelectric sensor installed on the medicine container ,after counting of the medicine in the medicine container by the counting photoelectric sensor, the medicine goes into the bottle in the bottling position.

◆ JF-48 Electronic counting machine

- (1) Strong compatibility ,It can count and bottle various kind of solid preparation or solid granules for example ,tablet (including heteromorphism tablet)、capsule、soft capsule ( transparent and non-transparent) 、pill etc.
- (2) Vibration discharging material: Gentle laying-off by 48 enter closes' vibration, with special patented flap partial filling system ,the discharging of medicine is homogeneous and stable without damage.
- (3) Anti high dust :Adopting the anti high dust photoelectric sensing technology only developed by our company ,it also can work stably under the high dust circumstance.
- (4) Correct counting :With automatic photoelectric sensor counting,the error of bottling is less than nation standard.
- (5) High intelligence :It has various alarm and control functions like no bottle no count ,check fault automatically and so on.
- (6) Auxiliary function :Photoelectric sensor can check automatically if there' s no bottle and stops automatically.
- (7) Easy operation :Adopting intellectualized design, all kinds of operation data can be set according to the requirement .It can store 10 groups of setting parameters for use.
- (8) Convenient maintenance :After simple training, the worker can operate easily .It is easy to disassembly, clean and change the components without any tools.
- (9) Sealing and dustproof :Dust collection box is available, it can reduce the dust pollution. (Optional)



# **JF-48 Electronic Counting machine**

## **Main Technical Parameter**

Applicable bottle shape :round、 square plastic bottle

Filling material:0~5#capsule、 soft capsule、  $\Phi 5.5\sim 12$ compressed tablet、 special-shaped tablet

sugarcoated tablet,  $\Phi 3\sim 12$ pill

Production capacity: 40~150 bottles per minute(It depends on the bottle size、 filling quantity and the tablet size)

The setting range of bottling volume:1-9999

Power supply: AC220V 50Hz 2.5kw

Accuracy rate: $> 99.5\%$ (higher than the industrial standard )

Air pressure: 0.6Mpa

Overall dimension: 2200×1400×1680mm

Weight: 620kg

## Main configuration

### JF-48 Electronic Counting machine

NO	Name	Manufacturer
1	Motor	TQG(Taiwan)
2	photoelectric sensor for seeing bottle	Panasonic
3	Photoelectric Head for counting	Adopt Everlight Electronics., Ltd
4	Pneumatic Components	Xingchen
5	Switch button	Schneider
6	The man-machine interface	Adopt Delta
7	Main control chip	STMicroelectronics co., LTD



## JF-C120 Automatic insert machine for desiccant(two sets)



### ◆ JF-C120 Automatic insert machine for desiccant(two sets)

The block bottle air cylinder on the passing bottle-track of the conveying bottle system make the bottles which came from the previous equipment stay in the drying agent filling position ,waiting to be filled in the drying agent .The bottle mouth faces to the clipping system correctly .

Stepping motor drives the bag conveying system,pull the drying agent bags out from the drying agent plate.

Color mark sensor tests the drying agent bags and control the length of the bags then the bags are clipped into the bottles .The conveyor belt of the conveying bottle system convey the bottles which have been filled in the drying agent to the next equipment .At the same time ,the bottles which are waiting for filling supplement to the drying agent bag filling position .

## ◆ JF-C120 Automatic insert machine for desiccant

- (1) Strong compatibility, suitable for all kinds of round 、oblate、square and flat square bottle with different size and materials.
- (2) Drying agent bag is in the color standard and colorless standard plate shaped bags.
- (3) Adopting pre-putting drying agent design, it can avoid the uniformity of bag carrying and ensure the accuracy of bags' length control.
- (4) Bag discharging adopts drying agent bag thickness self adjustment design ,it can avoid the occurrence of broken bags.
- (5) Durable knife edge ,shear with accuracy and reliability and it won't broke the drying agent bag.
- (6) It has the function of no bottle no work ,fault self examining ,drying agent won't in the bottle and any other check warning control functions ,so it can ensure the continuity of the equipment operation and accuracy of the filling of drying agent bags.
- (7) Operate automatically ,intelligently control with the last and next process, with good Harmony .Special operating person is not necessary so ti can save labor cost.
- (8) Chinese or Chinese-English control panel ,it can store 10 groups of parameters and it is convenient to use.
- (9) Control chip is imported from America .Optical electronic transducer is produced by Taiwan, stable and durable.

## ◆ JF-C120 Automatic insert machine for desiccant(two sets)

### Main technical parameter

Applicable bottle shape: round、oblate、square、flat square bottle

Drying agent bag: plate shape drying agent, the bag size is depend on the bottle size

Production capacity: 60~180 bottle/minute

Power supply: AC220V 50Hz 0.5kw

Air pressure: 0.6Mpa

Overall dimension: 1150×900×1900mm

Weight: 300kg

## Main configuration

JF-C120 Automatic insert machine for desiccant(two sets)

NO	Name	Manufacturer
1	Motor	TQG(Taiwan)
2	Stepper Motor	SIHAI ELETTRONICA (China)
3	photoelectric sensor for seeing bottle	Panasonic
4	Photoelectric sensor for color code	Panasonic
5	Pneumatic components	Xingchen
6	Switch button	Schneider
7	Main Control Board	Adopt Delta
8	The man-machine interface	Adopt Delta

## JF-D903 High speed capping screwing machine



The bottle caps neatened by the cap neatening device ,the bottle caps with mouth up are carried to the caps collecting guideway,the bottles come from other equipment of the assembly line enter the caps collecting area.The bottles move ahead with clamping of the two sides clamping device then the caps match the bottles automatically.

The cap pressing device press the caps to the pre-tight situation before rotating the caps.Under the function of three pairs of high speed rotating wearable rubber wheels, the caps match with the bottles tightly.

## **JF-D903 High speed capping screwing machine**

### **Main Features**

- (1) Strong compatibility ,suitable for various sizes of cap shape、 bottle shape.
- (2) A pair of cap dropping and wearing device suit for all kinds of bottle caps.
- (3) Cap unscrewing torque control, ensure the quality of the screw cap (optional)
- (4) Oscillating swivel wheel, strength is more suitable, greatly reduce the swivel wheel wear
- (5) No bottle or cap ,no work .By testing, it will wipe out the skew、 inverse caps and caps without aluminium foil .It has the function of fault self examining and any other check warning control functions ,so it can ensure the continuity and accuracy
- (6) Operate automatically ,intelligently control with the last and next process, with good Harmony .Special operating person is not necessary so it can save labor cost.
- (7) Use centrifugal cover falling mechanism to ensure fast and stable cover falling

### **◆ JF-D903 High speed capping screwing machine**

#### **Main technical parameter**

Applicable bottle shape: round、 oblate、 square、 flat square bottle

Production capacity: 60~180 bottles per minute

Power supply: AC220V 50Hz1.8kw

Air pressure: 0.6Mpa

Overall dimension: 2550×1050×1900mm

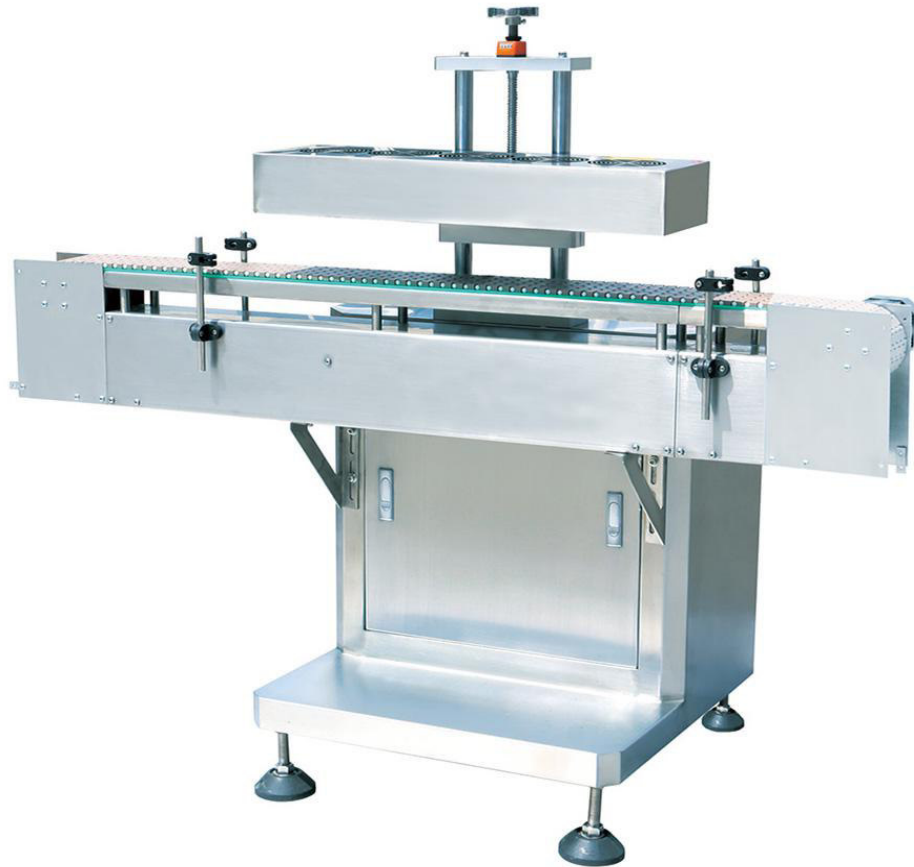
Weight: 650kg

## Main configuration

### JF- D903 High speed capping screwing machine

NO	Name	Manufacturer
1	Motor	TQG(Taiwan)
2	Transducer	Adopt Delta-China
3	Photoelectric sensor for see bottle	Panasonic
4	Pneumatic components	Xingchen
5	Switch button	Schneider
6	Main Control Board	Adopt Delta
7	The man-machine interface	Adopt Delta

## JF-M1 Induction sealer



The bottles with aluminium foil pass under the inductive head, the aluminium foil heats after receiving the energy produced by the inductive head.

The heated aluminium foil melt the plastic film attached to the aluminium foil and glue to the bottle mouth so it can achieve the sealing effect.





## JF-M1 Induction sealer

### Main Features

- (1) Strong compatibility, sealing rate can be adjustable according to the size of aluminium foil;
- (2) It has the function of fault self examining and any other check warning control functions ,so it can ensure the continuity and accuracy.
- (3) High electromagnetic conversion efficiency ,low energy consumption, good sealing effect.
- (4) It will reminder in time and stop automatically if the sealing rate is too small or too big.
- (5) Adopting wind to cool. and the cool effect is good. long service life.
- (6) Operate automatically, intelligently control with the last and next process, with good harmony. Special operating person is not necessary so it can save labor cost.

## JF-T1 Round bottle side face labeler(high speed)



The bottles which are needed labelling transfer by the bottle carrying guideway separate at the same distance by the bottle distance adjustment device, the photoelectric sensor can feel the bottles passing by and send out the signal. After getting the signal, the driving system opens to send the label. Tension system makes the label paper achieve tensioning effect. Then code by the coding machine, the orientation of label paper photoelectric sensor locate according to the length of the paper and make the label paper have the same distance.

Under the function of the label sticking part and label pressing part, the label paper strip away automatically, and stick to the demand location smoothly to finish the entire label sticking process.



# JF-M1 Induction sealer

## Main technical parameter

Applicable bottle shape: 15~500ml round、oblate、square、flat square bottle、bottleneck diameter (15~45mm)

Production capacity: 50~120 bottles per minute

Power supply: AC220V 50Hz3.0kw

Air pressure: 0.6Mpa

Overall dimension: 1350×900×1300mm

Weight: 220kg

## Configuration List

NO	Name	Manufacturer
1	High frequency induction power supply	Generator using the latest imported transistor, the CPU module control and protection function, frequency pulse
2	Switch button	Schneider



## JF-T1 Round bottle side face labeler(high speed)

### **Main Features**

(1) Strong compatibility ,suitable for all kinds of round objects.

(2) Adopting compacting labeling design, it can ensure the quality of labeling and can control the length of the label paper and the uniformity of labeling starting.

(3) Adopting pre-labeling system ,labels come out stably with good smoothness of label sticking and high accuracy of positioning.

(4) Rolling pressure label paper adopts different ways to different bottle shapes so it can ensure the quality of label sticking.

### **◆ JF-T1 Round bottle side face labeler(high speed)**

Applicable bottle shape:15~500ml round and square bottle

Production capacity:30~150 bottles per minute

Power supply: AC220V 50Hz0.15kw

Air pressure: 0.6Mpa

Overall dimension: 2000×700×1650mm

Weight: 280kg

## Main configuration

### JF-T1 Round bottle side face labeler(high speed)

NO	Name	Manufacturer
1	Motor	TQG(Taiwan)
2	Servo Motor	Delta
3	Switching power supply	Schneider
4	Thermal code printer	Shenglong packaging machinery co., LTD
5	Optical fiber for seeing bottles	Panasonic
6	See joint photoelectric	(SICK)
7	Pneumatic Components	Xingchen
8	Switch button	Schneider
9	Main Control Board	Adopt Delta
10	Human-machine interface	Adopt Delta

# Low Speed Integrated Capsule Packing Line



## **JF-A100 Round Bottle Unscrambler**



### **Working Principle**

The motor runs by the gear then it makes the neatening flower plate work. The bottles in the bottle container rotate from the under part to the upper part of the bottle neatening plate by the semicircle groove of the bottle neatening flower plate.

The bottles in the semicircle groove neatened by the bottle turning board of the bottle neatening system. It can turn the bottles which are upside down automatically.



## **Main Features**

### ◆ JF-A100 Bottle Unscrambler

To change the easy by simple adjustment and change of individual mold.

## **Main Technical Parameter**

### ◆ JF-A100 Bottle Unscrambler

Bottle type: plastic round bottle

Production capacity: 30~100 bottles per minute

Power supply: AC220V 50Hz 0.15kw

Air supply: 0.6Mpa

Overall dimension: 1150×900×950mm

Weight: 120kgs



## **JF-12 Electronic counting machine**



The block bottle device on the passing bottle-track of the conveying bottle system make the bottles which came from the previous equipment stay in the bottling position,waiting to be filled in.

The medicine goes into the medicine container in order by the vibration of the feeding corrugated plate. There' s a counting photoelectric sensor installed on the medicine container,after counting of the medicine in the medicine container by the counting photoelectric sensor, the medicine goes into the bottle in the bottling position.



◆ JF-12 Electronic counting machine

(1) Strong compatibility, It can count and bottle various kind of solid preparation or solid granules for example, tablet (including heteromorphism tablet)、capsule、soft capsule ( transparent and non-transparent) 、 pill etc.

(2) Vibration discharging material: Gentle laying-off by 12 enterclosets' vibration, with special patented flap partial filling system ,the discharging of medicine is homogeneous and stable without damage.

(3) Anti high dust: Adopting the anti high dust photoelectric sensing technology only developed by our company, it also can work stably under the high dust circumstance.

(4) Correct counting: With automatic photoelectric sensor counting, the error of bottling is less than nation standard.

(5) High intelligence: It has various alarm and control functions like no bottle no count, check fault automatically and so on.

(6) Auxiliary function: Photoelectric sensor can check automatically if there' s no bottle and stops automatically.

(7) Easy operation: Adopting intellectualized design, all kinds of operation data can be set according to the requirement. It can store 10 groups of setting parameters for use.

(8) Convenient maintenance: After simple training, the worker can operate easily. It is easy to disassembly, clean and change the components without any tools.

(9) Sealing and dustproof: Dust collection box is available, it can reduce the dust pollution. (Optional)



## **JF-12 Electronic Counting machine**

### **Main Technical Parameter**

Applicable bottle shape: round、 square plastic bottle

Filling material: 00~5#capsule、 soft capsule、  $\Phi 5.5 \sim 12$  compressed tablet、 special-shaped tablet

Sugarcoated tablet,  $\Phi 3 \sim 12$  pill

Production capacity: 20~40 bottles per minute(It depends on the bottle size、 filling quantity and the tablet size)

The setting range of bottling volume: 1-9999

Power supply: AC220V 50Hz 0.8kw

Accuracy rate:  $> 99.5\%$ (higher than the industrial standard )

Air pressure: 0.6Mpa

Overall dimension:  $1400 \times 1400 \times 1560$ mm

Weight: 350kg

## **JF-C120 Automatic insert machine for desiccant(two sets)**



The block bottle air cylinder on the passing bottle-track of the conveying bottle system make the bottles which came from the previous equipment stay in the drying agent filling position ,waiting to be filled in the drying agent .The bottle mouth faces to the clipping system correctly .

Stepping motor drives the bag conveying system,pull the drying agent bags out from the drying agent plate.

Color mark sensor tests the drying agent bags and control the length of the bags then the bags are clipped into the bottles .The conveyor belt of the conveying bottle system convey the bottles which have been filled in the drying agent to the next equipment .At the same time ,the bottles which are waiting for filling supplement to the drying agent bag filling position .

## ◆ JF-C120 Automatic insert machine for desiccant

- (1) Strong compatibility, suitable for all kinds of round、oblate、square and flat square bottle with different size and materials.
- (2) Drying agent bag is in the color standard and colorless standard plate shaped bags.
- (3) Adopting pre-putting drying agent design, it can avoid the uniformity of bag carrying and ensure the accuracy of bags' length control.
- (4) Bag discharging adopts drying agent bag thickness self adjustment design ,it can avoid the occurrence of broken bags.
- (5) Durable knife edge ,shear with accuracy and reliability and it won't broke the drying agent bag.
- (6) It has the function of no bottle no work ,fault self examining ,drying agent won't in the bottle and any other check warning control functions ,so it can ensure the continuity of the equipment operation and accuracy of the filling of drying agent bags.
- (7) Operate automatically ,intelligently control with the last and next process, with good Harmony .Special operating person is not necessary so ti can save labor cost.
- (8) Chinese or Chinese-English control panel ,it can store 10 groups of parameters and it is convenient to use.
- (9) Control chip is imported from America .Optical electronic transducer is produced by Taiwan, stable and durable.



## ◆ JF-C120 Automatic insert machine for desiccant(two sets)

### Main technical parameter

Applicable bottle shape: round、oblate、square、flat square bottle

Drying agent bag: plate shape drying agent, the bag size is depend on the bottle size

Production capacity: 60~180 bottle/minute

Power supply: AC220V 50Hz 0.5kw

Air pressure: 0.6Mpa

Overall dimension: 1150×900×1900mm

Weight: 300kg

## **JF-D901 Pressure Capping machine**



Its function automatically completes bottle delivery, filling, upper cover, rotating cover and so on. The utility model has the advantages of simple structure, stable action, and can solve the positioning and filling problems of the special-shaped bottle.

The machine can not only be produced by single machine, but also can be connected into the production line. It is an ideal filling equipment for the production of pharmaceutical and health care products. Non-standard bottle samples can be specially designed and manufactured.



## **JF-D901 Pressure Capping machine**

### **Main Features**

(1) strong compatibility, suitable for various specifications of cover type, bottle type;

(2) a pair of falling caps, wearing cover devices suitable for various specifications of bottle caps;

(3) No bottle, no cover, no aluminum foil detection and elimination, fault self-check and other inspection alarm control functions to ensure continuity and accuracy;

(4) automatic operation, intelligent joint control with the upper and lower processes, good coordination, no need for special operation, saving labor;

### **Main technical parameter**

Applicable bottle type: 20~500ml round, flat round, square, flat square bottle

Production capacity: 50-120 bottles/ min

Power and Power: AC 220 V 50 Hz 1.8 kw

Gas source: 0.6Mpa

Dimensions: 1850-600-1560mm

Weight: 600kg



## **JF-M1 Induction sealer**



The bottles with aluminium foil pass under the inductive head, the aluminium foil heats after receiving the energy produced by the inductive head.

The heated aluminium foil melt the plastic film attached to the aluminium foil and glue to the bottle mouth so it can achieve the sealing effect.



## **JF-M1 Induction sealer**

### **Main Features**

- (1) Strong compatibility, sealing rate can be adjustable according to the size of aluminium foil;
- (2) It has the function of fault self examining and any other check warning control functions ,so it can ensure the continuity and accuracy.
- (3) High electromagnetic conversion efficiency ,low energy consumption, good sealing effect.
- (4) It will reminder in time and stop automatically if the sealing rate is too small or too big.
- (5) Adopting wind to cool. and the cool effect is good. long service life.
- (6) Operate automatically, intelligently control with the last and next process, with good harmony. Special operating person is not necessary so ti can save labor cost.

### **Main technical parameter**

Applicable bottle shape: 15~500ml round、oblate、square、flat square

bottle、bottleneck diameter (15~45mm)

Production capacity: 50~120 bottles per minute

Power supply: AC220V 50Hz3.0kw

Air pressure: 0.6Mpa

Overall dimension: 1350×900×1300mm

Weight: 220kg

## **JF-T1 Round bottle side face labeler**



The bottles which are needed labelling transfer by the bottle carrying guideway separate at the same distance by the bottle distance adjustment device, the photoelectric sensor can feel the bottles passing by and send out the signal.

After getting the signal, the driving system opens to send the label.tension system makes the label paper achieve tensioning effect.then code by the coding machine,the orientation of label paper photoelectric sensor locate according to the length of the paper and make the label paper have the same distance.

Under thefunction of the label sticking part and label pressing part, the label paper strip away automatically, and stick to the demand location smoothly to finish the entire label sticking process.

## **JF-T1 Round bottle side face labeler**

### **Main Features**

(1) Strong compatibility ,suitable for all kinds of round objects.

(2) Adopting compacting labeling design, it can ensure the quality of labeling and can control the length of the label paper and the uniformity of labeling starting.

(3) Adopting pre-labeling system ,labels come out stably with good smoothness of label sticking and high accuracy of positioning.

(4) Rolling pressure label paper adopts different ways to different bottle shapes so it can ensure the quality of label sticking.

### **◆ JF-T1 Round bottle side face labeler**

Applicable bottle shape:15~500ml round and square bottle

Production capacity:30~120 bottles per minute

Power supply: AC220V 50Hz0.15kw

Air pressure: 0.6Mpa

Overall dimension: 1650 × 800 × 900mm

Weight: 300kg