

Automatic bottle production line:

- 1.Unscrambler
- 2.Fillers
- 3Automatic capper
- 4.Coding bridge
- 5.Through accumulation table
- 6.Sleeving machine
- 7.Steam tunnel and generator
- 8.Drying system
- 9.Packaging table
- 10.Cartoning machine
- 11.Automatic cellophane wrapping machine
- 12.Semi-automatic box taper
- 13.Pallet wrapper

Product introduce:

- 1.Auto Elevating Type Bottle Unscrambler



1. Fully automatic feeding bottle machine is mainly suitable for use with production line equipment. It has the functions of automatic feeding, automatic bottle handling and bottle arrangement. It is an indispensable equipment for small production lines.

2. Manually pour the bottle into the bottle unscrambler. The bottle unscrambler uses a gear motor to drive the bottle dial. Each bottle falls into the bottle mold in sequence. It is delivered by rail-type flipping. In the opposite direction, the track automatically flips the orientation to ensure that the bottle shape enters the filling machine consistently.

3. The automatic bottle unscrambler is mainly suitable for the bottle of round bottles, and is a common supporting equipment for automatic production lines. The bottle motor can be steplessly regulated.

This machine is suitable for the packaging process of liquid filling and processing bottles in the pharmaceutical and food industries. This machine is mainly suitable for bottle-lifting of 10-100ml round or shoulder-shaped bottles of various materials. The work surface is protected by stainless steel and the machine meets GMP requirements.

When working, the noise is small, the loss is low, the work is stable, and the output is stable, which is especially suitable for the production of small and medium batches.

4. This machine has storage bottle function

Lack bottle automatic feed bottle

Technical parameter	
Bottle specification	50-200 ml (Confirm the specific specifications when ordering)
Production speed	60-70 Bottle/min
Power Supply	220V/50Hz
Power	1.0 Kw
Weight	450 Kg
Dimensions	2200*1100*1400

Characteristics

1. Can handle a variety of bottles (round bottles, shaped bottles)
2. For the 10-100ml bottle, just replace the mold to achieve the specifications you want. Adjust the height of the turntable. Easy to replace.

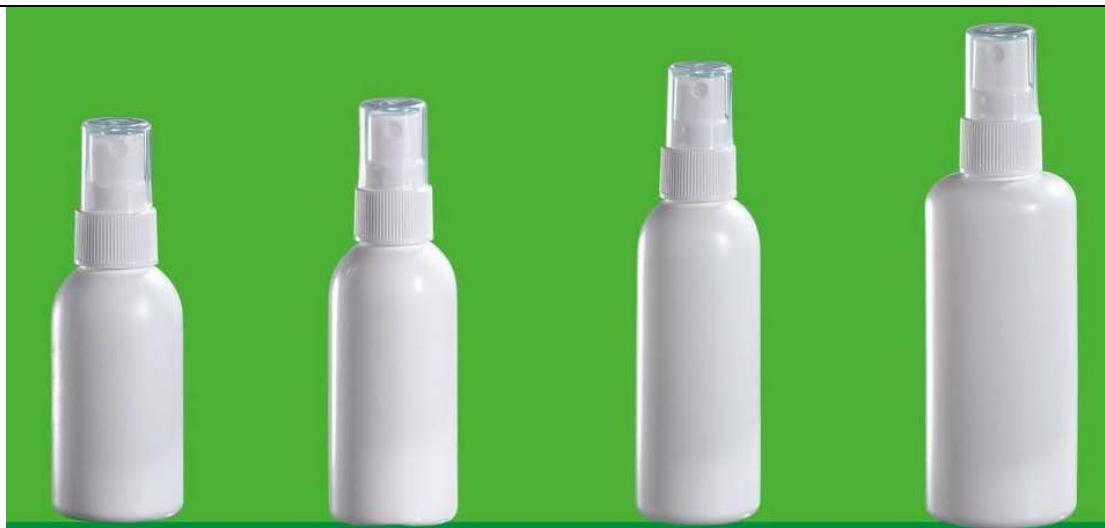
There is no bottle to start, there is a feature that the bottle is automatically stopped.

After the bottle is bottled, it is introduced into the conveyor belt. The conveyor belt is equipped with (fiber-optic sensor). When the bottle enters the conveyor belt, the bottle-collecting machine automatically stops. No bottle enters the conveyor, and the bottle-receiving machine automatically starts.

2. Automatic Spary bottle filling and capping machine



(Picture only for reference)



Samples



(Picture only for reference)

Brief introduction

This machine is my company research and development based on the absorption of foreign advanced technology, special equipment for spray filling. For a variety of materials round, shaped bottles, all kinds of nozzles filling rotation (rolling) cap. Stainless steel piston pumps quantitative filling, pneumatic lid, lift cap. with filling accurate measurement, capping smoothly, easy operation. In a leading position. Widely used in medicine, cosmetic and other industries.

Technical parameter

Bottle specifications	50-200 ml
Production speed	60-70 Bottle/min
Filling head	8
Capping head	2
Qualification rate	≥99%
Power Supply	220V/50Hz
Power	3.5 Kw
Weight	1200 Kg
Dimensions	3200*1750*1700



Vibrating plate(automatic feeding the cap)



Coding bridge

Main configuration		
No	Name	Brand
1	Motor	Shanghai Lichao
2	Cam Indexer	Jiangsu Chucheng
3	Conveyor motor	Taiwan TQG
4	Speed controller	Taiwan TQG
5	Button	Schneider
6	Frequency converter	Taiwan WEINVIEW
7	Touch screen	Taiwan WEINVIEW
8	PLC	Japan Mitsubishi
9	Relay	OMRON
10	Optical fiber	Japan Panasonic

11	Cylinder	AirTAC
12	304 Stainless steel	Shanghai Baosteel
13	Main turntable	SH
14	Piston pump	SH

3. SLEEVE LABEL MACHINE



STEAM TUNNEL



STEAM GENERATOR



Table



Drying



some products of our customers



Name	Technical Parameters	
Auto sleeve labeling machine	Mode	SH-150
	Speed	6000BPH
	Main machine's size	1000*860*1800(L*W*H)mm
	Machine's body & weight	SUS304, 800KGS
	Electrical power	AC3-PHASE 380V
	Input power of machine	3.5KW
	Diameter of bottle	φ25-125mm
	Bottle height	Max350mm, special can be designed
	Thickness of shrink label	0.035-0.13mm(pvc, pet. ops)
Steam shrink tunnel	model	SR-SR1500
	size	1500*500*600
	Machine's body and weight	SUS304. 350KGS
	Fan power	0.4kw
	voltage	AC3-PHASE 380V
	Steam consumption	0.5-3mpa 30-80kg/Hr
Steam generator	Power	24KW
Table	diameter	1.2m

Drying	power	7.5KW
	size	2000*600*1700(L*W*H)mm

Electrical appliances

No.	Name	Brand	Producing area
1	Touch screen	easyview	TAIWAN
2	PLC	Panasonic	Japan
3	Inverter	Panasonic	Japan
4	Button	Schneider	French
5	Relay	Omron	French
6	Electromagnetic contactor	Schneider	French
7	Current protector	Schneider	French
8	switch	Schneider	French
9	bearing	NSK	Japan
10	Sensor	Sick	Germany
11	Servo motor	Panasonic	Japan
12	Gear motor	GPG motor	China

Equipment description:

1). Machine body

SUS304 stainless steel

2). Knife plate of mechanics: 1 set

The knife plate is driven by motor machinery. When no bottle is delivered, the machine has no motion. It helps to gain using time and get more safety. At the same time, the cuttings are used with the average cutting knife, and it's easily changed and economic. Also it has function and durability.

3). Sleeve driving unit: 1 set

It's the important part to fix mandrel. No matter the bottle is big or small, just spin the handed wheel to change the size. Moreover, its X and Y of axes is synchronous motion, so that it makes the mandrel stable and the circle spot accurate.

4). Label's brushing system: 1 set

It continuously use driven set's armed designed theorem. Depends on the mandrel's size, and adjust the width from handed wheel. Furthermore, it directly touches the mandrel. Forcefully inserting the label on the bottle, it won't be influenced by static electricity, and so that it's fast and right to insert.

5). Mandrel: 1 set

Whole mandrel design leads labels through cutting plate to cutting sleeve drive system and directly inserts the moving bottles. According to its design of double sleeve driving section, and more over four-spot clipped physical strength makes it more stable. In a long time with high speed running, it won't be deviating from circle spot. So, it's the key part of inserting label right or not.

6). Label accumulator: 1 set

Its design can keep the label into cutting in balance, and it wont influenced by the external force as wind.

7). Sleeve unwind section: 1 set

With its design, supporting spot can be changed by different paper core, the range from 5 inches to 10 inches.

8). Brush system: 1 sets

Distributed beside the conveyer, with different bottles, it can assist labels at fixed position totally.

9). Working table up & down unit: 1 set

Using the touching panel board, it can get with different bottle's height.

10). Steam shrink tunnel or Power shrink tunnel : 1 set

Using low pressure saturated of steamed inner adjusted blower, it's variable for all kinds of curve bottles. It shrinks totally, so it saves the steam's energy. It's made of stainless steel of shrink tunnel covering. Inside the machine, distributed many kinds of steam adjusted pipes and valves, all are for hand control freely. The other way, with the machine there is a blower to clean the extra steam out.

11). Control system:

It includes each part of sensors and controller.

1.1. Staged sensor: 1 set

It's the key structure to control the label long or short. Besides this, if the bottle shape is changed from circle to square, it easily can be changed direction for 45°. Then, it changes the material's lay flat for inserting the square bottle easily.

1.2. Bottle sensor seat: 1 piece

Adjusted mechanism for convenience and speed, after sensing the bottles, the inserting seat is accurate and fast.

1.3. Interface operating

Using high qualified screen LCD of handed panel, its controlling order and breakdown obviated are shown on panel. the machine provides full-interface operation for easy maintainability.

Toolbox list

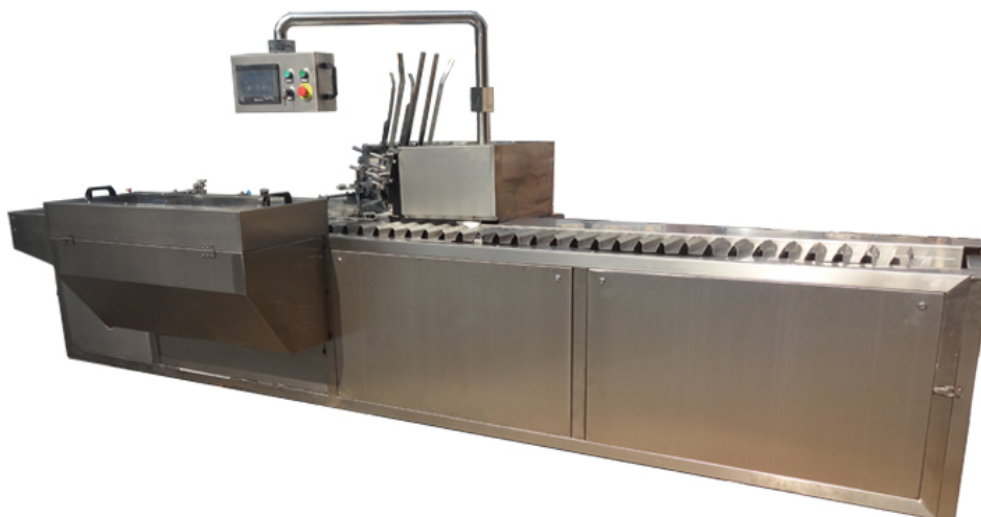
NO	name	specifications	quantity
1	Open end wrench	14、12、8、10	1set
2	Adjustable wrench	250 * 30	1piece
3	Allen wrench	A total of seven teams	1set

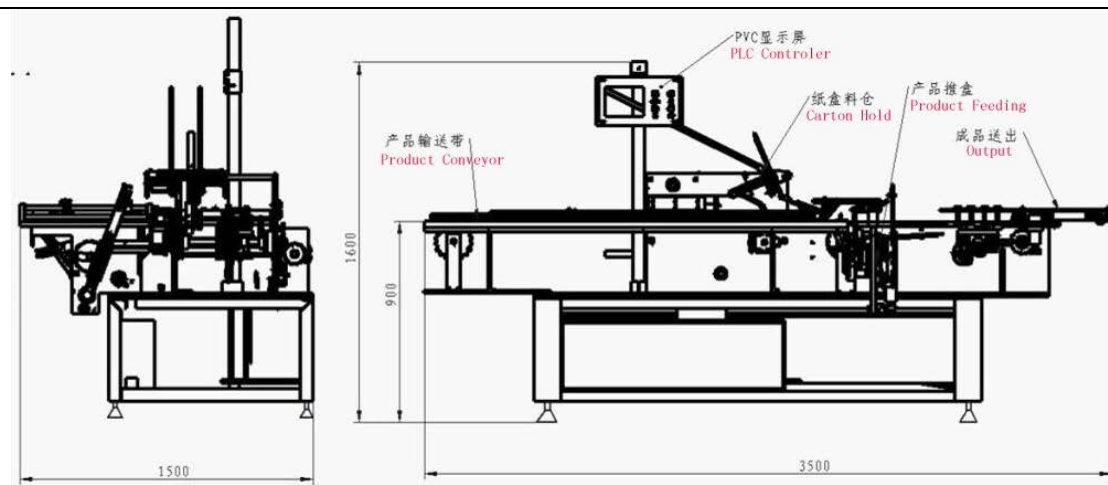
4	Open screwdriver		1piece
5	Plum screwdriver		2piece

4. Automatic box packing machine



(Picture only for reference)





Technical Parameters

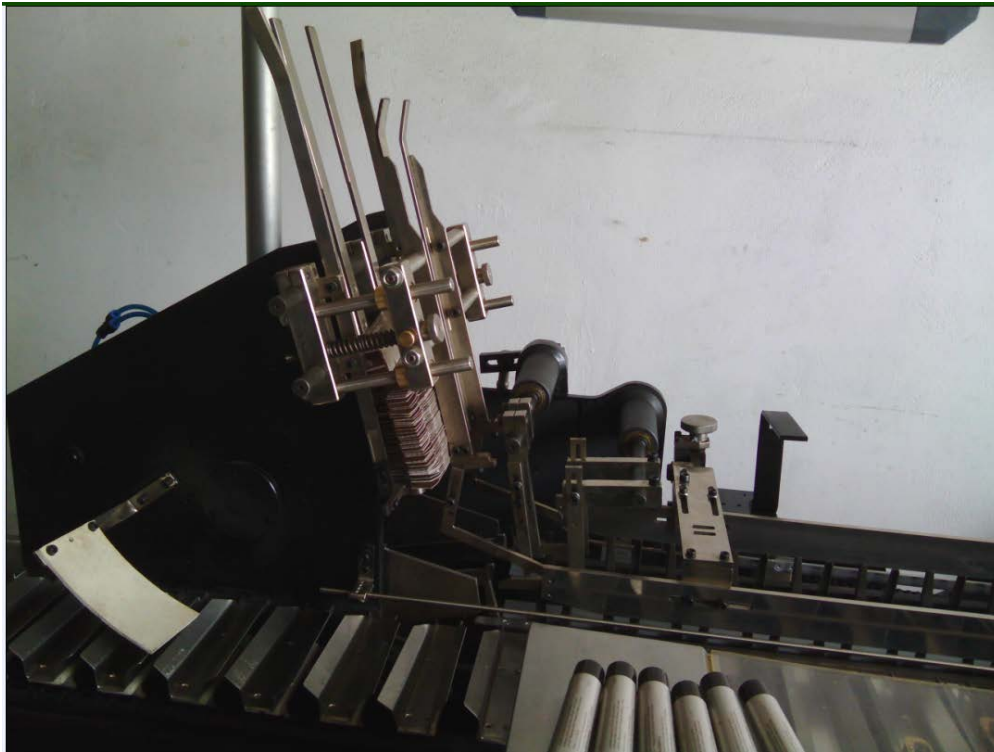
Packing speed	80-100 Boxes/Min
Carton size range	L (40-150) mm×W (20-90) mm×H (20-90) mm
Carton paper requirements	250-450g/m ³
Instructions size range	L (100-260) mm×W (100-190) mm
Manual paper-based requirements	55-70 g/m ³
Motor Power	1.5KW
Power Supply	Three Phase four-wire 380V 50Hz
Machine noise	≤80dB
Gas source	0.5-0.8 Mpa
Air consumption	120-160L/min
Dimensions	4500×1500×1600 mm
Total Weight	1200Kg

Configuration:

No.	Name	specifications	manufacturer	Qua
1	PLC	LP1E-30DR-D	Vigor/Mitsubishi	1
2	PLC expansion module	DVP16SP11R		1
3	Encoder	E6B2-CWZ6C		1
4	Touch Screen	MP5-SQ000 B1		1
5	The inverter	3G3CV-A4015		1
6	light eyes	E3Z-D61		1
7	Motor	CH-1500-10S 1.5KW	Tai wan	1
8	servo motor	0.4KW	Tai wan	1
9	Indexing box	0S83-4L-180	Zhe jiang	1
10	Button	XB2	Schneide	3
11	Emergency stop	ZB2 BC4D		1

12	optical fiber	E3X-NA11	Omron	1
13	Siemens AC contactor	LC1E3210M5N	Germany's Siemens	1
14	Switching Power Supply	S-100-24	Taiwan	1
15	vacuum generators	ZH20DS-01-04-04	SMC	2
16	Intermediate relay	ARM2F	Omron	4
17	Proximity Switch	TS-12M-5NK	Omron	3

Product Feeding Device:**Carton Box Feeding and Forming:**



Conveyor Chain:



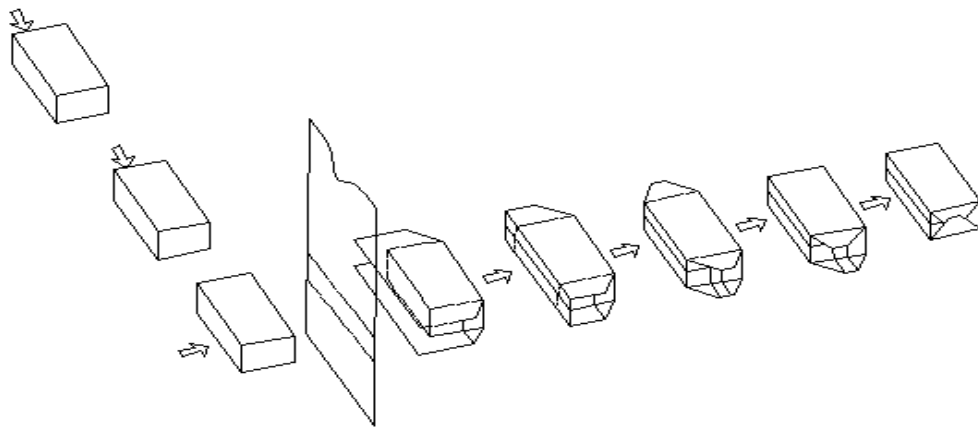
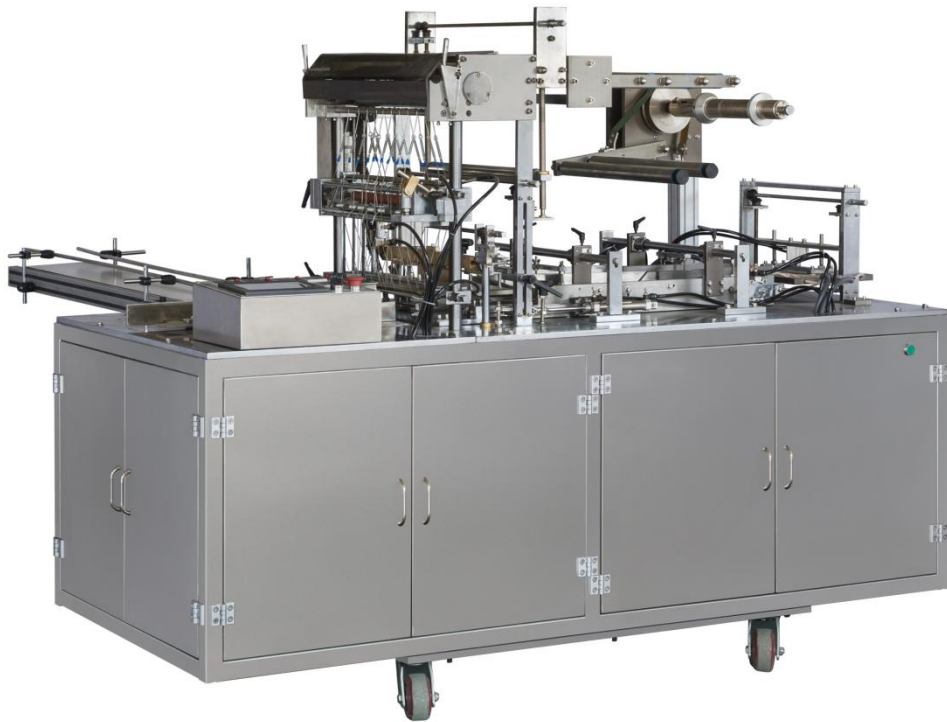
PLC Controller:



Output:



5. Automatic cellophane wrapping machine





Introduction:

This machine is widely used in medicine, food, key protection products, cosmetics, daily necessities, stationery, poker and other industries of all kinds of box items in the package collection or single box fully closed automatic packaging. The products packed by the machine have the function of "three prevention and three improvement", that is, anti-counterfeiting, moisture-proof and dustproof. Raise product class, raise product additional value, raise product exterior decoration quality. The machine adopts imported PLC control, electromechanical gas integration operation system. Reliable performance, easy to use, and the box machine, box machine and other mechanical linkage production. Is the domestic advanced box in the bag collection or the big item three - dimensional packing equipment.

Features:

1. Adopt man-machine interface, PLC control, and prompt for fault diagnosis.
2. Servo motor is used to automatically lower the film, with fast speed, adjustable length, smooth and accurate lower film.
3. The main parts are driven by mechanical CAM and servo motor, which makes the operation more stable, accurate synchronization, convenient adjustment and firm sealing.
4. Compact structure, easy operation and maintenance, complete safety protection.

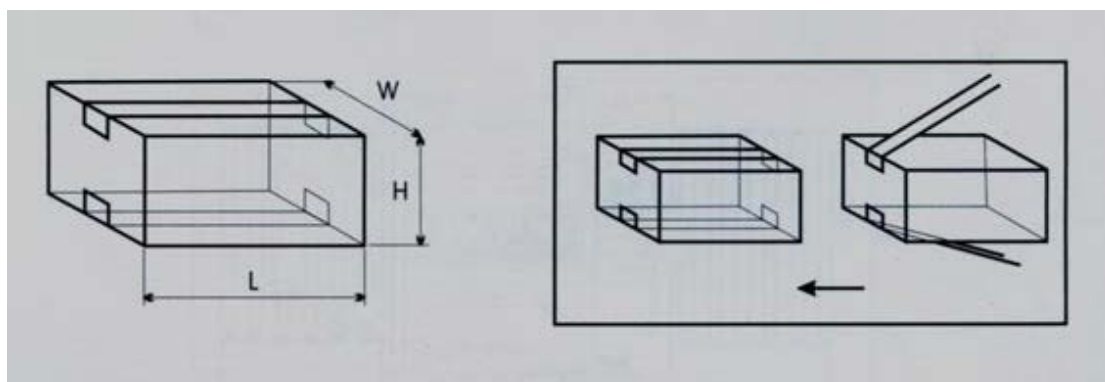
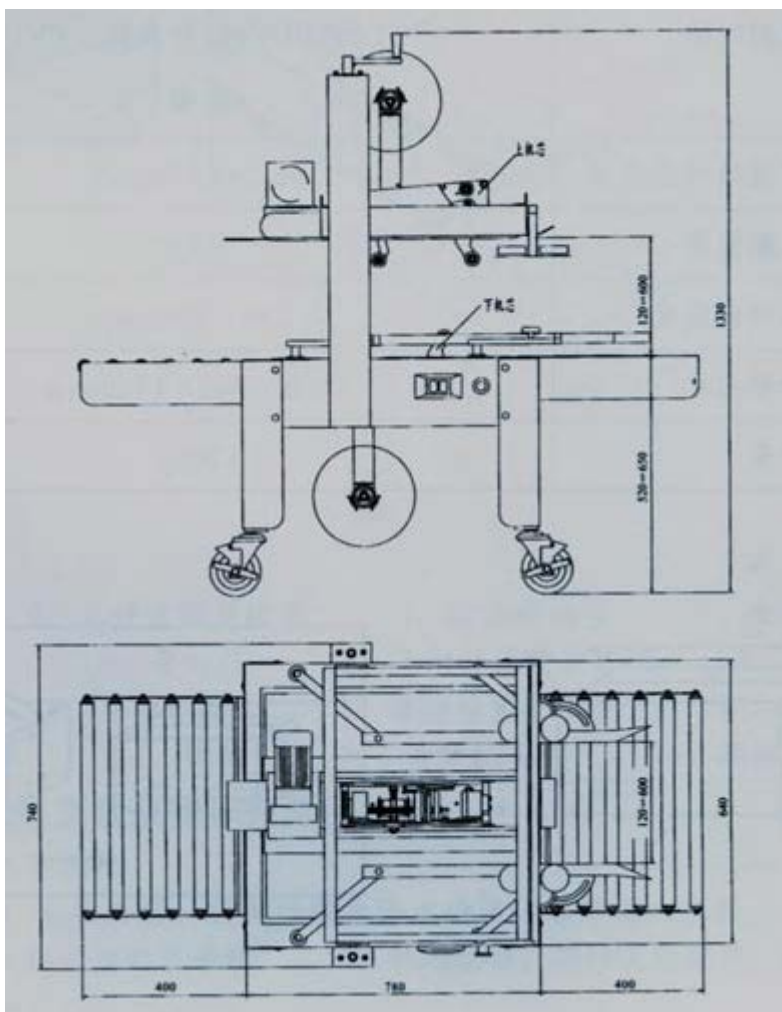
The main technical parameters:

Production capacity	30-90 boxes/min
Packing material	BOPP Heat sealing film and anti-counterfeit cable
Maximum packaging film size	360x245(mm)

Packing size	(L)100-360mm(W)40-180mm(H)20-80mm
Dimension	2100mm×1000mm×1650mm(L×W×H)
Weight	1000kg
Motor Power	2.5kw
Electric power	4.5kw
Voltage	220V、380V/50Hz

6. Semi automatic box taper





Introduction

- a. It mainly suits for sealing the carton. It can be singly used and combined with packaging line.
- b. It is widely used in the field of food, medicament, and chemistry etc.
- c. It seals both top and bottom of the carton with adhesive tape at one time.
- d. The FX-01 is simple to operate and adjust.

e. Case size changes are made without tools by the operator in less than one minute with easy to use hand wheel settings.

Technical Parameter

Power Supply	220V 50Hz 2x90w
Sealing Speed	1000cartons/hour
Loading weight	50kg
Maximum carton size (width * height)	500*500mm
Minimum carton size (width * height)	80*90mm
Working plate height	550~750mm
Machine Size	1930*830*1600mm
Machine weight	150kg

7. Pallet wrapper



Product description:

Automatic pre-stretching winding packaging machine is suitable for bulk cargo container transportation and bulk pallet packaging. At present, such products have been widely used in chemical, electronic, non-woven, food, beverage, paper and other industries. Its main features: manual start automatic packaging procedures, with automatic upper and lower membrane mechanism; Only need to use tooling film, the whole volume of film automatic continuous packaging; Make it easy to operate, high degree of automation, reduce the number of operators. Beautiful packaging can save labor, improve work efficiency, reduce labor intensity and improve product grade.

Technical parameters:

- 1.Control system: programmable PLC control, winding layer number, number of times, over time, reinforcement layer can be set by man-machine interface.
- 2.Inverter control: the rise and fall speed of the diaphragm frame, the rotation speed of the turntable can be adjusted.
- 3.Number of upper windings: 0-9
- 4.Lower winding number: 0-9
- 5.Number of rounds up and down: 0-9

6. Turntable system: The turntable is made of Kaiping fine plate material, which is automatically and accurately reset, and the goods are in and out.

The same location. After each package, the turntable automatically returns to the initial state, which is convenient for shovel.

When the car enters and exits, the forklift does not need to move multiple times. Speed variable frequency control, slow (soft) start, the turntable speed can be adjusted arbitrarily, and the items are stable and safe on the tray.

7. Film frame system: A, mechanical resistance stretch film frame

B. The motor pre-stretched film frame and the film system follow-up mechanism can be pulled. (pre-stretching optional)

8. Lifting column system: The lifting column is double-chain structure, the slider guiding structure is more tightly matched.

The lifting speed is more stable.

9, photoelectric switch automatically detects the height of the package

10, with self-protection switch device and emergency safety parking device

11, the operation is simple: just press the automatic run button to complete the entire packaging process. Stable performance and reliable use.

12. Automatically sense the height of the cargo.

13, the winding film is easy to replace (pre-stretching optional)

14. Motor pre-tensioning device, different from mechanical type, is safer for operators (pre-stretching option)

Model	SY-TP2000Y
Packaging size(max)	L:1800mm W:1200mm H:1800mm
Height of packaging	2000mm
Turntable load(max)	2000kg
Start	Variable frequency start slowly
Speed of turntable	13r/min
Turntable diameter	2000mm
Turntable height	80mm
Control method	PLC
Height measurement method	Sensor
Noise	≤75DB

Gas source	0.4--0.6MPA
Total power	2kw
Voltage frequency	220V/50Hz
Weight	850kg

Main product configuration:

1. Gear reduction motor (for turntable drive components) :Taiwan Wanxin
2. Turbine worm reducer (for diaphragm lifting drive parts): NMRV
3. Turbine worm reducer (for stretch film driving parts) :NMRV
- 4, frequency converter :Germany Siemens
- 5, PLC. Color display :Taiwan Xinjie,
6. Low-voltage electrical appliances: France Schneider
- 7, GB1243.1-83 lifting chain: 08B-1 Donghua
- 8, GB1243.1-83 turntable chain:10B-1 Donghua
- 9, UCP215 thrust bearing 51213
- 10, sprocket, outsourcing standard parts
- 11, the main shaft 45# steel (heat treatment)
- 12, the rack Q235-A (spray plastic) (turntable 10mm middle plate)