

**Offer for DPP360 Blister packing machine, linkage device
and SDZ 100 Cartoning machine**

DPP-360D BLISTER PACKING MACHINE SPECIFICATION



1. Overview

This product is a new packing machine designed by our company; it has reached domestic leading level. It is suitable for capsule, tablet, big honey pill, candy, liquid, paste, syringe as well as irregular shape al-plastic, paper-plastic composite and al-al sealing packing in pharmacy, healthcare, food, cosmetics, medical equipment industry etc. this machine adopts micro-computer PLC, frequency converter, touch panel operation high automation; it is an ideal blister packing equipment. The product passed the provincial science and technology appraisal.

1.1 Usage

It is suitable for capsule, tablet, big honey pill, candy, liquid (ointment), paste, syringe as well as irregular shape Al-plastic and paper-plastic composite sealing packing in pharmacy, healthcare, food, cosmetics, medical equipment industry etc.

1.2 Feature

1. Traction drive by servo motor (traction by precision leadscrew or rubber press roller), with precise synchronization. The length of travel range can be set in man-machine interface.
2. Equipped with eye marking system, the background of printed pattern is uniform and looks pleasant.
3. Available for alu-plastic (hot forming) and alu-alu (cold forming), only change mould and feeder for alu-alu packing.
4. Various types of feeder solve the difficulty for irregular shape products packing.
5. Five stations forming, heat-sealing, batch number embossing, avulsion line impressing and cutting etc all adopt gear mandrel orientation, each can move freely in the mandrel when rotate the hand wheel, easy to adjust and accurately.
6. Newly mould orientation device speed up the mould changing requirement.
7. Equipped with plexiglass cover: the operation area is isolated with transmission organ, avoids pollution, easy for clean.
8. Online detection and ejection system, and the camera detection system can be chosen **for option**.

1.3 Picture



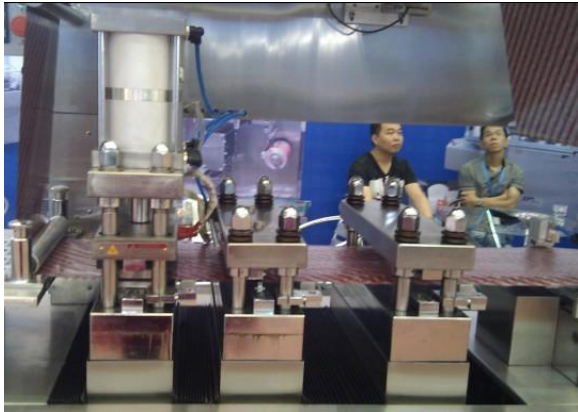




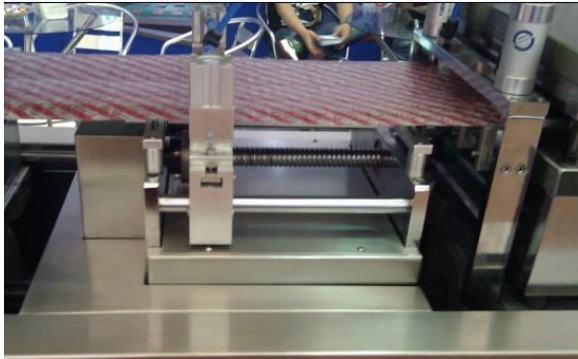
Heating and forming station



Feeding station



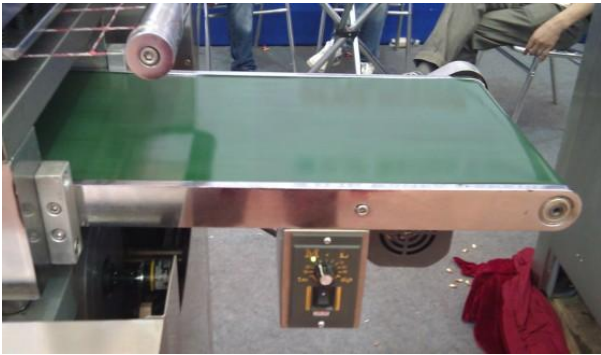
Heat-sealing, perforation and batch number embossing station



Traction, controlled by servo motor



Cutting system



Conveyor



Camera system



Eye marking system

1.4 Main Technical Parameters

Cutting Frequency (Times/min)	6-35
Max. Forming Areas And Depth (mm)	400×180×26 (can be specially designed for deeper)
Travel Range (mm)	40-180 (Can be lengthened to 180mm as user's requirements)
Air Pressure (Mpa)	0.4-0.6
Air Supply	≥0.3m ³ /min
Total Power	380V/220V 50Hz 9.7kw
Main Motor Power (kw)	2.2
PVC Sheet (mm)	0.15-0.5×360
PTP Aluminum Foil (mm)	0.02-0.035×360

Dialysis Paper (mm)	50-100g×360
Mould Cooling	Tap Water Or Circulating Water
Overall Dimensions (mm)	4300×820×1600 (L×W×H)
Weight (kg)	2500

2. Component List

Item	Specification	Manufacture
Speed Reducer and Main motor	MPF47-Y1.5-4P-43.05-M1	Shanghai Maite transmission machinery Co.,Ltd
Frequency Converter		Siemens
Man-machine Interface		Siemens
PLC		Siemens
AC Servo Driver	ASD-A0721-AB	Taiwan Delta Company
AC Servo Motor	ECMA-C30807PS	Taiwan Delta Company
Encoder	ZLB3.806-G-500BM	Haide

Mini-electronic Motor	YN80-25	Shanghai Maite transmission Machinery Co.,Ltd
Pneumatic Cylinder	SDA32 × 5	Taiwan AIRTAC
Pneumatic Cylinder	ZQGJ125 × 35-2FA	NingBo JingXing Pneumatic Components Co., Ltd
Mid-Relay	MY2NJ	Omron
Solenoid Valve	4V210-08 DC24V	Taiwan AIRTAC
Decompression oil-water separator	BFC-2000	Taiwan AIRTAC
Unstuck- heating appliance	ZL-1.2KW	Jiangsu AnTai Heat-Electric Factory
	ZL-1.5KW	
3-path Combined Thermo-controller	ATC30-ASR1-K4	Zhejiang AIKS Electric Co.,Ltd
A.C Contactor	CJX20 (B) 16-30-10	China Chint Group
Solid-relay	380V D25	Hangzhou Longlive Company

SDZ-100 Horizontal Cartoning Machine for blister



General Description

This machine is high technology product incorporates of pneumatic-photo-electro-mechanic. It is suitable for inserting blister, bars, pillow wrapped products, pharmaceutical products and food similar package into carton in a range. The machine finishes running by a series of photo-electro controller to make the machine stability and guarantee the packing quality. It includes carton suction and open, products put into, printing batch number, sealing carton with tuck-in or hot melt glue device.

Technical Data

Weight & Dimensions

Type	SDZ-100
Dimensions in mm	3100×1100×1550(L×W×H)
Weight in kg	1400

Output & Speed

Steady production speed	70-80cartons/min
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Unfold Leaflet (optional)

Grammage	Between(60-70)g/m ²
Carton Size range	(80-250) ×(90-170)mm (L×W) We recommend unfold leaflet size 150*130mm
Fold range	(1-4)fold
Notice: The leaflet can be folded by the machine	

Carton and blister

Grammage	Between(250-350)g/m ²
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Utilities

Standard power supply	220V – 50Hz
Power consumption in KW	0.75
Air consumption	120-160L/min
Compressed Air Pressure	0.6MPa
Noise	<70 dB

3. Functions and Options

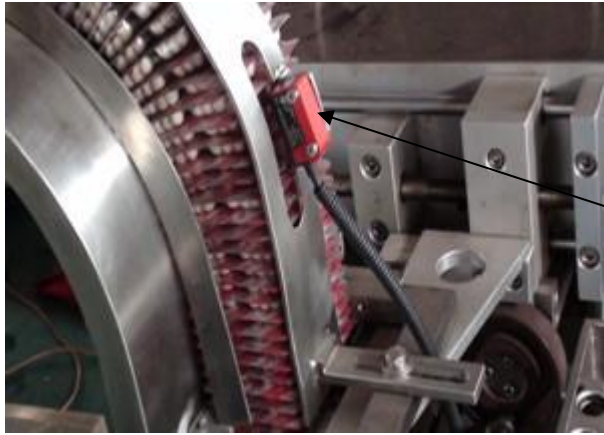
- The cartoning machine includes an automatic station to form the cartons. The carton boxes are held by vacuum
- No suction carton by missing blister
- No suction carton by missing leaflet
- Automatically displaying device for trouble, speed and finished products counting
- Machine stop running if no products or incorrect position of products. And stop automatically if incorrect position of product into carton after return or no cartons or out of leaflets continuous.
- Adopt human-machine operation system.
- International famous brand of electric components such for PLC touch screen, frequency inverters, etc
- Stable performance, operation is easy Controls

Sensors

- Blister presence detection sensor
- Leaflet presence detection sensor
- Carton present detection sensor

4. Structure about every assembly unit





sensor for detect leaflet

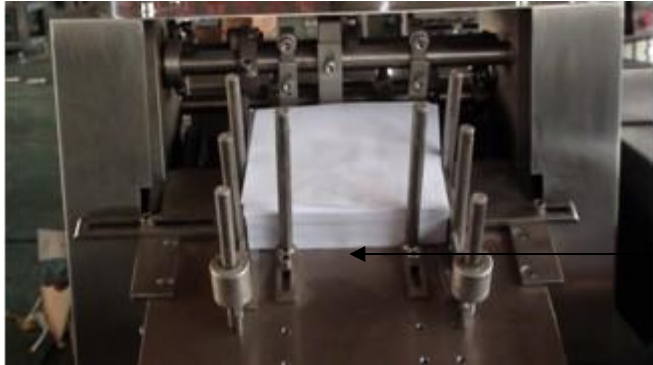


Servo drive (for 1-5blister)



sensor detect blisters stacking height

The



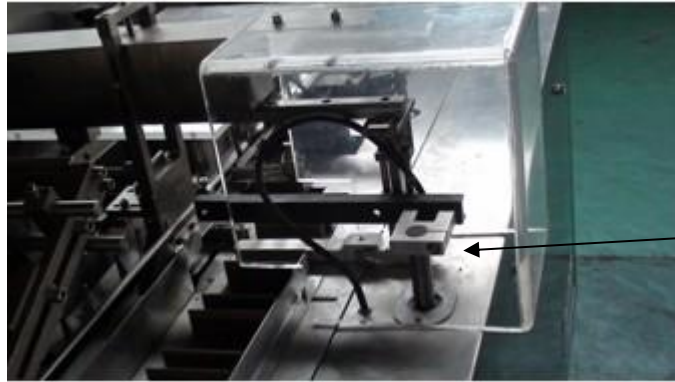
Leaflet folder (1-4folds online)



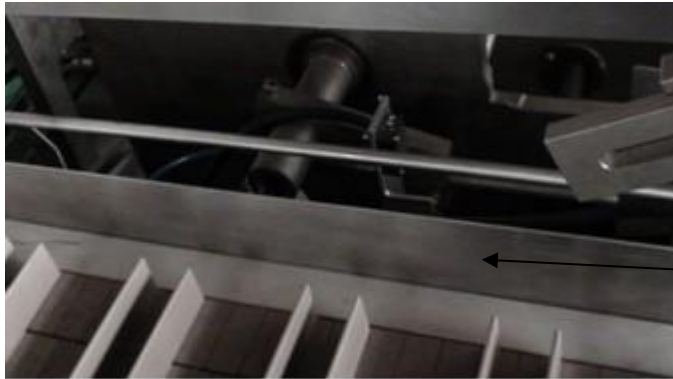
Carton magazine which can full of 400-500pcs cartons



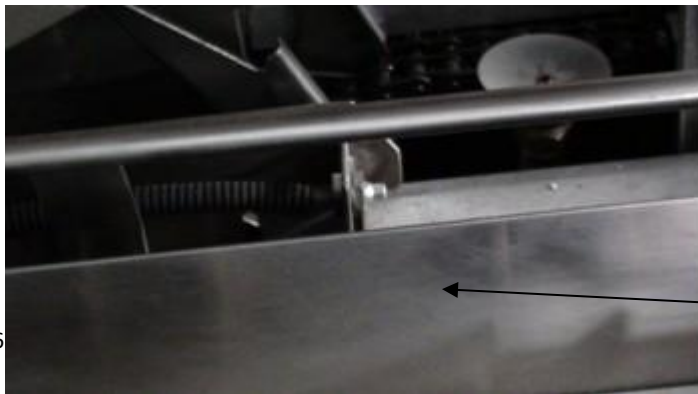
Sucker plate for pick up carton



Pusher (which product into carton)



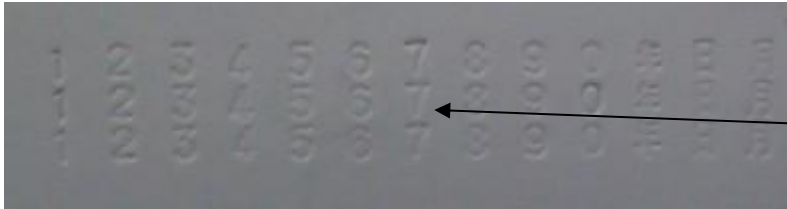
Sensor for detect leaflet



Sensor for detect carton



Printing batch number: embossing also called steel letter



There are three lines ,each line have 13letters ,which base on flap size



Rejection for without leaflet



Touch screen interface (human-machine)

5.Component List

NO	Name	Model and Specification	Place of Origin or Brand	Qty
1	Main Motor	R17DT80N4 750w//220V/380V	Germany SEW	1

2	Frequency Converter	FC-051PK75S2E20H	Denmark Danfoss	1
3	Breaker	DZ47-D10/2P	Chinese Yaohua	1
4	Breaker	DZ47-D63/1P	Chinese Yaohua	2
5	Switch Power	S-50-24V	Taiwan Mingwei	1
6	Power Switch	T0-2-1/EA/SVB	Germany Queensway Moeller	1
7	Emergency Stop Button	ZB2-BE102C	France Schneider	1
8	Relay	MY2NJ/24V	Japan Omron	6
9	Touch Screen	Smart 700	Germany Siemens	1
10	PLC	CPU224/DC/DC/DC	Germany Siemens	1
11	Coder	E6B2-CWZ6C	Japan Omron	1
12	Optical Fiber Amplifier	E3X-NA11	Japan Omron	2
13	Optical Fiber	E32-ZD200	Japan Omron	2
14	Photoelectric Switch	D-73277	Germany Leuze	1
15	Photoelectric Switch	E32-D61	Japan Omron	2
16	Proximity Switch	TL-Q5MC1	Japan Omron	1
17	Filter Pressure Reduce Valve	AW30-03E	Japan SMC	1
18	Electromagnetic Valve(Reject)	VQ21A1-5G-C8	Japan SMC	2
19	Electromagnetic Valve	VP342R-5GD1-02A	Japan SMC	1
20	Electromagnetic Valve	VQ2321-5G1-02	Japan SMC	3

21	Silencer	AN402-04	Japan SMC	2
22	Suck Plate	ZP32 CU	Japan SMC	1
23	Servo Drive	200W 6SL3210-5CB11-1AAO	Siemens V80	1
24	Servo Motor	200W 1FL4032-OAF21-OAAO	Siemens V80	1
25	Air Cylinder	CXSM15-40	Japan SMC	1
26	Air Cylinder	MAL16/75	China kaogeer	1
27	Air Cylinder	SSA20/15	China kaogeer	1
28	Proximity Switch	J30-D18NK	China Ruixiang	1

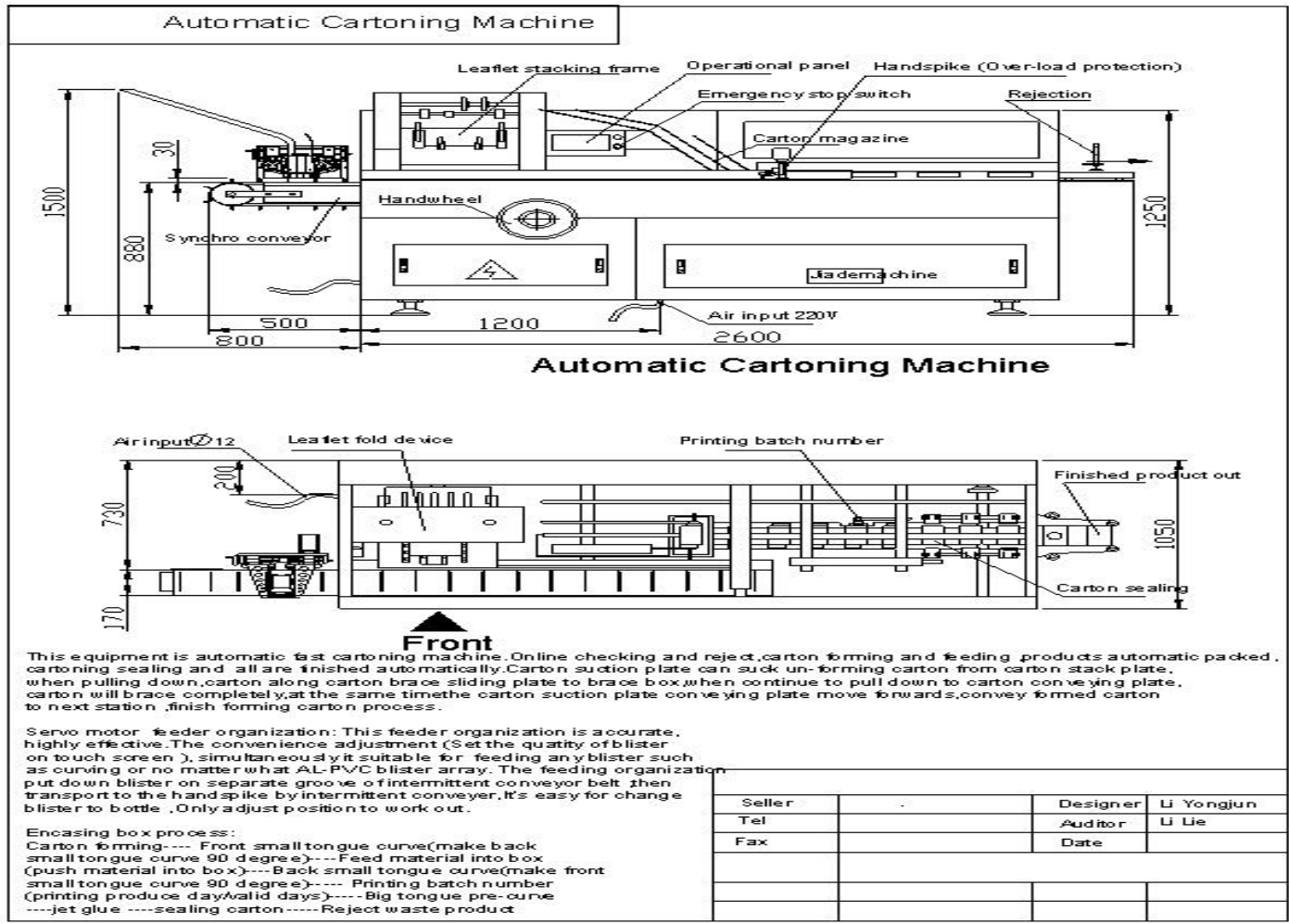
Packing list

No	Name	Specification	Unit	Qty	Remarks
1	Automatic cartoning machine	SDZ-100	Unit	1	
Tool List	2	Slotted head screwdriver	4	PCS	1
	3	Cruciform screwdriver	4	PCS	1
	4	Movable spanner	8	PCS	1
	5	Movable spanner	12	PCS	1
	6	Inner hexagon spanner	Lengthen	Set	1
	7	Pressure oil can	Pressure oil can	PCS	1

	8	Adjustable spanner	8-10	PCS	1	
	9	Fixed spanner	12-14	PCS	1	
	10	Steel wire pliers (flat)	8	PCS	1	
	11	Steel wire pliers(acutilingual)	4	PCS	1	
Spare Parts one year free	12	Vacuum suction plate	φ32	PCS	1	
	13	Steel letter	(0-9)reverse word	PCS	Each 10	
	14	Conveyer belt	380×15×1.5	PCS	2	
	15	Conveyer belt	580×15×1.5	pcs	2	
	16	Paper clip		pcs	2	

NO	Technical documentation	Unit	Qty	Remakes
1	SDZ-100 Automatic cartoning machine Operation Manual	PCS	1	
2	Product qualified certificate	PCS	1	
3	Frequency Converter Operation Manual	PCS	1	

Machine design drawing



Working principle drawing