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SLM-100

Auto. Shrinking Label Sleeving Machine

Specification

SHANGHAI YIAO PACKAGE MACHINERY CO.,LTD



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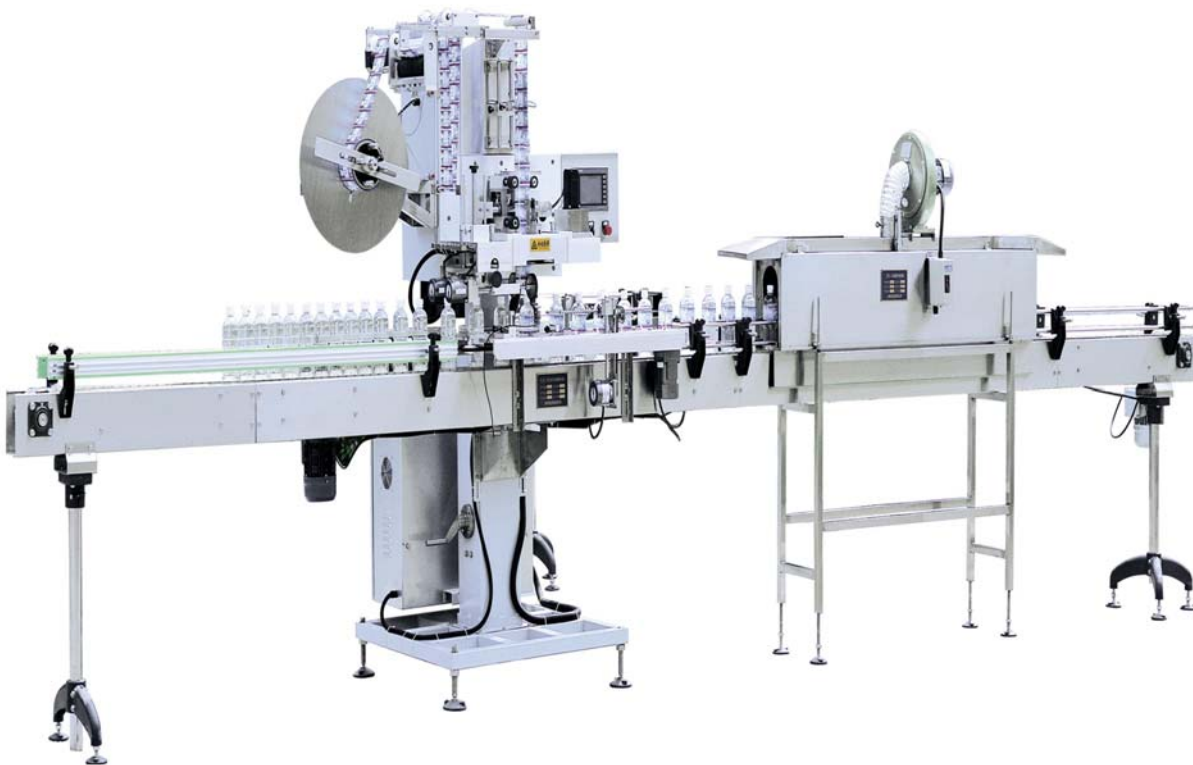
1. Summary

1.1 Company profile

Shanghai YiAo package machinery Co., Ltd, which is a modern high-tech joint-stock enterprise, lying in No. 7468 Hunan Road Xinchang Town Nanhui Borough shanghai City China. It produces professionally liquid packaging machinery and foodstuff packaging machinery.

The company, whose workers have great diathesis, in possession of grand technique, can complete the whole item including design development, manufacture, fixing, debugging, technique training and after service and so on. The Yi Ao Company inoculates the advanced science and technology, relying on abundant technique so it can develop good technique, great quality packing machine, which can pack liquid foodstuff to satisfy the clients' requirement.

Our aim is seeking great quality productions、 high-quality service. Meeting the client's requirement is the only standard of our work. We are ready to go with every counterpart hand in hand, achieving the brilliance of the packaging machinery trade.





2. Equipments summary

2.1 Equipments general introduction

This machine massively has used the aluminum alloy and high strength, the anti-corrosive stainless steel, causes the machine over all overhead construction firmer durable, in the machine performance the modulation, the human nature design causes each adjustment easier, the replacement model is simpler. Using the man-machine contact surface in the control system to control, which is easy to study and understand.

2.1.1 characteristics

A, this machine can work with the drink, the water production line together, the connection is simple;

B, the man-machine contact surface control, easy to operate, easy to study and understand, danger signal demonstrating;

C, the design of the reamer-seat is novel, just need to simply adjust the reamer-flake to be allowed to shut off the volume sign in the specification scope;

D, replacing specification fast, convenient and simple, moreover not need any special tool;

E, compulsory to wrap label, which is reliable and economical. The label thickness may reach 0.10mm;

F, reorganization of the driver of this machine is simple, to suit volume label of the different specification

2.1.2 uses:

SLM-100 machine is with high automatization, strong corrosion resisting, simple to operate and convenient to maintain. Wrap label widely used in each kind of bottled product, like the drinks, the healthy product, the cosmetics, wash product, the medicine (agriculture)leechdom, petroleum etc. the product.

2.2 Technological parameters

Machine model:	SLM-100
Main machine size:	2440×950×2000 (mm)
Equipment size:	4500×1000×2100 (mm) (including heating tunnel shrinking machine)
Equipment weight:	450Kg
Productivity:	100bottles /minute (suitable bottle)
Suitable bottle (mouth) diameter:	Φ50~Φ90mm
Wrap label length:	40 ~180 mm
Label thickness:	0.035 ~ 0.10mm
Volume label material:	PVC, PET, OPP, OPS
Volume label shrinker:	Steam type
Operation mode:	Entirely automatic control

2.3 Structure and function of the product



2.3.1 main structures of the product

This machine is mainly composed by the machine-rack and adjusting the height organization (5), the discreteness of the reamer tray (1), the driving delivering label organization (2), the newel installment (3), the supplying label organization (6), the bottle dividing screw rod organization (7), the transportation organization (8), the hair brush organization (12) and so on.

- (1) the discreteness of the reamer tray
- (2) the driving delivering label organization
- (3) the newel installment
- (4) photo electricity switch frame discreteness
- (5) the machine-rack and adjusting the height organization
- (6) supplying label organization
- (7) dividing the bottle screw rod organization
- (8) the transportation organization
- (9) brushing labels away organization
- (10) lighting the bottle photo electricity switch frame
- (11) the hair brush organization
- (12) man-machine contact surface control box
- (13) pyrocondensation stove

2.3.2 the function of components

- (1) the discreteness of the reamer tray: setting reamer flake inside, the steel body structure of the deflexion mode, used to cut label contraction membrane;
- (2) the driving delivering label organization: Using the servo electrical machinery control, causes the label contraction membrane according to the decided size transportation
- (3) the newel installment: making the label contraction membrane wrap the newel to open, enables the label contraction membrane be allowed to transmit and cut;
- (4) photoelectricity switch frame discreteness: using photoelectricity switch transmit signal, supplying the signal to the control system causes the label contraction membrane to do the decided size transportation, the electric eye position can be adjusted, to determine correct cutting position of the reamer flake in the reamer tray rack;
- (5) the machine-rack and adjusting the height organization: Entire machine uses high strength, the anti-corrosive stainless steel material, to support the main engine and fix transportation organization, and adjust the height of the driving supplying label organization according to the bottle height control actuation the altitude;
- (6) supplying label organization: Used to fix the label contraction membrane, control the label contraction membrane the tensility of feeding, decelerate the electricity machine to press the labels then feed by the transportation hoop, which used to transmit the label contraction membrane;
- (7) dividing the bottle screw rod organization: making the bottles need to wrap, to do the transportation of the decided distance by the screw rod, enable the bottles separate at the isometry, in order to help wrap the label;
- (8) the transportation organization: to adjust conveyor belt speed using frequency, which is

suitable for matching the speed of the energy produced by this machine, to transport the bottles;

(9) brushing labels away organization: Using the synchronization control organization, to adjust the transmission hoop with the hoop under newel to make a slight contact, when the label getting across, to make the label to project and wrap the label by rather high velocity;

(10) lighting the bottle photoelectricity switch frame: It can adjust about to induce the position of the bottle and export the signal, causes the main engine make the automatic and correct wrapping the label;

(11) the hair brush organization: to make the label of the bottle wrapped brush away then locate using the soft rubber;

(12) man-machine contact surface control box: For control main center of this machine, causing each operation display page become the division for the manual, the automatic, the enactment, the surveillance and the malfunction explanation etc. In addition, assists several knobs. The button is used in other operations etc. the function.

(13) pyrocondensation stove: using the heat energy of the steam, to make the label wrapped the bottle do the contraction evenly and paste on the bottle.

Auto. Shrinking Label Sleeving Machine is based upon the idea of the compact structure, the simple operation, convenient adjustment, designed by absorbing international advanced technology, the majority components processed and completed by using the numerical control engine bed to guarantee the size precision. The machine is installed strictly according to the document content of the equipment installment technics, the complete process of the equipment producing is tracked strictly according to the quality request, the staff engaging the installment are the senior technicians with the work experience of above ten years. And there is an engineer to follow up the entire process with work experience of above 30 years, each set of equipment leaved our company all has the strict after service-track system.

3. Gist of this scheme

All projects related to this specification are based upon below bottles:
Basic bottles: (As below sketch)



瓶口型



整瓶型



瓶身到底型



瓶身中间定位型

4. Scheme content

The technology request of Auto. Shrinking Label Sleeving Machine SLM-100

4.1 The speed 6,000 bottles per hour

The standard producing ability is 100B/minute for SLM-100 Auto. Shrinking Label Sleeving Machine

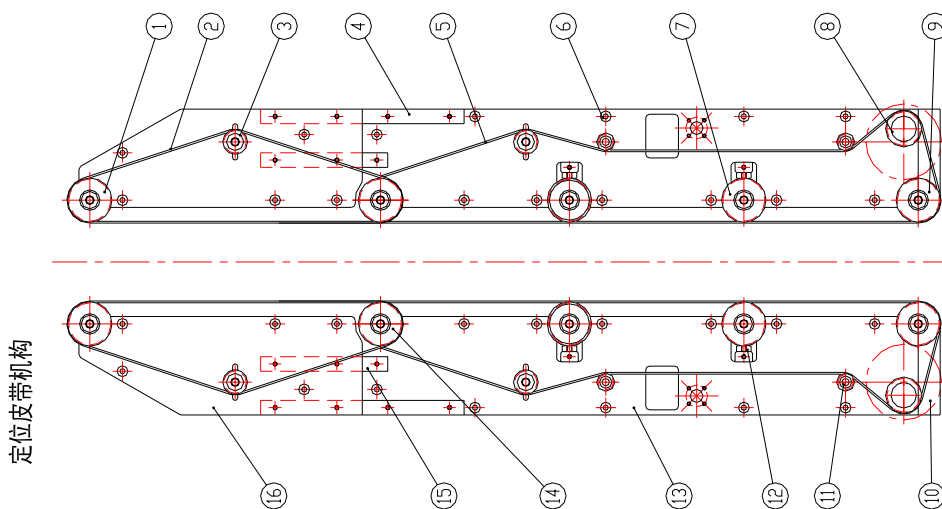
In our company, the hourly standard producing ability is 6,000B/h. When the label height $\geq 200\text{mm}$, the producing ability is 60-90B/minute.

4.2 The suitable bottle,

the fit scope of SLM-100 Auto. Shrinkable Label Sleeving Machine in this instruction manual: the fit bottle (mouth) diameter: $\varnothing 50 \sim \varnothing 90\text{mm}$, the fit height: $H40 \sim 180\text{mm}$. Therefore the equipment completely meets the need of wrapping the label of the bottle of your company.

4.3 Capability: Stable, reliable, the precision is accurate. The bottle transformation is convenient and quick.

SLM-100 Auto. Shrinking Label Sleeving Machine mainly manufactured by our company has exported largely to Southeast Asia, Middle East and Europe areas and so on, has not met any equipment failure in the production of the local high load. Wrapping-label machine series of our company product has already taken the extremely high prestige in the local area, has set up the good image of the brand produced domestically! Wrapping-label machine of our company has fixed systems of a set of labels (the following chart to show), may be reliable to make the label deliver to the assigned position. Just need to replace the few spare parts when replacing the different bottle, including like the chart (3) the newel installment and the replacing label, simply to adjust the localization leather belt and (7) the width and the height of the dividing bottle screw rod organization. You can full out finish replacing in 5 minutes if skilled using.



4.4 Electric appliance collocation: Using the import primary parts of an apparatus.

SLM-100 Auto. Shrinkable Label Sleeving machine equipment primary parts of an apparatus brand mainly used as follows:



1) Taiwan HITECH touchscreen



2) PLC in Japanese Corp



3) Japanese imported digital servomechanism and the electrical machinery:



4) photoelectricity switch: KEYENCE



5) frequency changer: Japan original installation imported Omron



6) air switch, indicating lamp, circuit breaker, contact device, knob and button: French Shi Naide



6) 端子: PHOENIX



7) switching power supply: Taiwan MingWei (MW)



8)electrical machinery: Taiwan East WeiTing

4.5 The way of shrinking the label: shrinking the label by the steam

The wrapping label machine manufactured by our company equips the shrinking label machine by the steam, which will be designed according to the bottle of your firm, under the premise of shrinking label request of satisfying your firm completely, it will shrink the label paper close, solid and uniform as far as possible and maintaining the bottle body ametabolic at the greatest degree, to maintain the label paper and the bottle body the good outward appearance.

4.6 The shrinking stove made of the stainless steel

The shrinking label machine by the steam matched and used with Auto. Shrinkable Label Sleeving machine, regardless of the internal pipe line or the outer covering, all made of the imported high quality stainless steel, which satisfies the request of the food factory completely.



4.7 shrinking the label smooth and no rumple

The steam spout position of the shrinking label machine will be designed solely according to the product characteristic of your firm, will be able to freely adjust the direction and the current capacity, to guarantee the surface of the label paper after shrinking smooth and no rumple and the label will closely attach to the bottle body, not falling off.

4.8be responsible to install, the debugging and training

If equipment in domestic, our company will be responsible installing, matching the line and debugging work for the wrapping label machine installment which this instruction manual involves, the equipment in overseas, the consumer will be responsible to the installing and debugging personnel' s airplane tickets, the board and lodging as well as the evection subsidy.

4.9providing the integrated mechanical drawing, the electrical chart as well as the product instruction booklet

The mechanical installing drawing, the electrical chart as well as the product instruction booklet will be transported to the installation site along with the equipment.

4.10 providing the detail list of the spare parts

Please refer to the appendix 1: The detail list of spare parts



5. Equipments price

Related quotation according to specification:

No.	Name	Model No.	Unit Price USD	Qty	Total Price USD	Remarks
1	Auto. Shrinking Label Sleeving Machine	SLM-100	25,200	1	25,200	
2	Central Mould 1		Free	1		Delivery with the machine
3	Steam type shrinking tunnel	ZRS-100	4,400	1	4,400	
4	Wear and spare parts					see the spare parts detail list
5	Boiler		1,700	1 set	1,700	
6	Technical services					One year free
7	Others	Conveyer belt	Free	6.4 meters		Delivery with the machine
Total	Total Amount USD \$31,300 (FOB Shanghai)					
	\$35.00 per person per day on buyer's site if necessary (not including air ticket, hotel fund, local transport fee, medical insurance, etc)					
	Others: if wrapping the label on the empty bottle, the price correspondingly increases (using vacuum conveyor belt and turbulent flow air blower). Note: If the transporting chain is increased 1 meter by USD , a set of Central Mould is increased by USD , a set of blowing water device is USD (deciding according to the scene situation and bottle shape of the wrapping label)					

6. Commercial conditions

6.1 This quotation is including VAT(17%) in RMB. The delivery term is Ex-work our company (YIAO).

6.2 The delivery address: the consignment is in the factory of the supplier, the cartage expense is responsible by the customer;

6.3 The date of delivery: delivering goods in 30 days from the contract signed and receive the advance payment, the sample of the bottle and the label film model latter

6.4 The payment method: The contract takes effect after the advance payment of 50% of the charge is paid. The equipments will be delivered when the rest of complete payment is received.

6.5 The checking and accepting deadline is in five days after finish installing and the commissioning.

6.6 Based upon the international convention, the guarantee term of this equipment is 1 year after start up.



Appendix 1: Spare part list (SLM-100)

NO	Name	Specification	amount	Position
1	Timing belt	T5X295X10	2	the brush device
2	Timing belt	T5X575X10	2	the brush device
3	Timing belt	T5X450X25	1	The bottle detaching screw
4	Timing belt	106XL-062	1	the label feeding driving device
5	Timing belt	T5X480X15	1	the knife disk
6	Timing belt	110XL-050	4	the label feeding driving device
7	Feeding wheel	Φ38	2	the label feeding driving device
8	Feeding wheel	Φ80	2	the label feeding device
9	Knife flake	9X80 Φ3	20	the knife disk
10	Fuse		6	
11	equipments		1 set	



Appendix2: Main configuration purchased overseas list

(SLM-100)

No.	Name	Brand	Producer
1	SUS304 Stainless Steel Material		Korea
2	Electrical Motor	T.W.T	Taiwan
3	Bearing	NSK, MNB,EZO,IJK	Japan
4	Servo Electrical Motor	Panasonic	Japan
5	Servo System	Panasonic	Japan
6	PLC	OMRON	Japan
7	Transducer	OMRON	Japan
8	Visible Touchable Displayer	HITECH	Taiwan
9	Contact Device	SCHNEIDER	France
10	Sensor	SUNX	Japan