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1. Equipment overview

Equipment Name	Automatic non - PVC soft bag making machine			
Equipment type	CSS2			
Compatible specification	100ml、250ml、500ml、1000ml, 2bags/group 2000ml、3000ml, 1bag/group			
Equipment function	Product information printing, Forming and output			
Equipment size	L 4m W 2.2m H 2m			
	Product specifications affect machine dimensions. Based on the contract drawings.			
Installation area	L 5.5m W 3.5m H 2.7m			
	Considering the equipment door space and laminar flow installation, note: the equipment does not include laminar flow, need to be quoted separately Product specifications affect machine dimensions. Based on the contract drawings.			
Equipment capacity	100/250ml	500ml	1000ml	2000/3000ml
	2200-2400BPH	2000-2200BPH	1800-2000BPH	800-1000BPH
	Test conditions: Correct operation of equipment, qualified raw materials, compressed air 0.65Mpa The final production capacity should be determined after the confirmation of film, tube and stopper. Any impact of production speed caused by external factors will be regarded as no responsibility to the machine manufacturer.			
Public energy	380V, 50HZ CSS2:MAX.12KW			
	compressed air: 0.65-0.8Mpa, dry oil-free compressed air 1600L/min			
	Cooling water: No need			
Equipment weight	1.8T Integral lifting			
Environment	Temperature 20-35℃, relative humidity 45%-65%			
Noise	75dB Measure 1m away from the machine			
Language	Chinese/English			

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2. Equipment characteristics

Comply with relevant GMP requirements
Pass CE certification
In line with the relevant laws and regulations of I.V. bags.
High temperature control precision, compatible with different suppliers of qualified film and hose
Mold processing precision is high, easy to adjust, welding stability, reduce leakage rate
Simple operation, stable operation, high qualified rate
Compact structure, small footprint, high production efficiency
Plug stability, accurate in place, to ensure the sealing pass rate



3. Raw materials required for production

Raw material	Name	Photo	Specifications
Membrane	Non-PVC Multilayer Co-extrusion Composite Film		Inner diameter 6 inch, general market specification
Interface	Non-PVC Multilayer Co-extrusion Composite Tube		Inner diameter $6.13 \pm 0.1\text{mm}$, outer diameter $8.13 \pm 0.1\text{mm}$
Ribbon	Soft bag infusion liquid transfer thermal transfer ribbon		Inner diameter 3 inch, general market specification
Sealing plug	Polycarbonate composite plug for infusion	---	See "5. Bag Type and sealing plug Drawings"

The quality of raw materials affects the production speed and stability of machines, Any impact of caused by external factors will be regarded as no responsibility to the machine manufacturer.

The customer should provide free the raw materials required for the equipment manufacturing process, which will affect the delivery date.

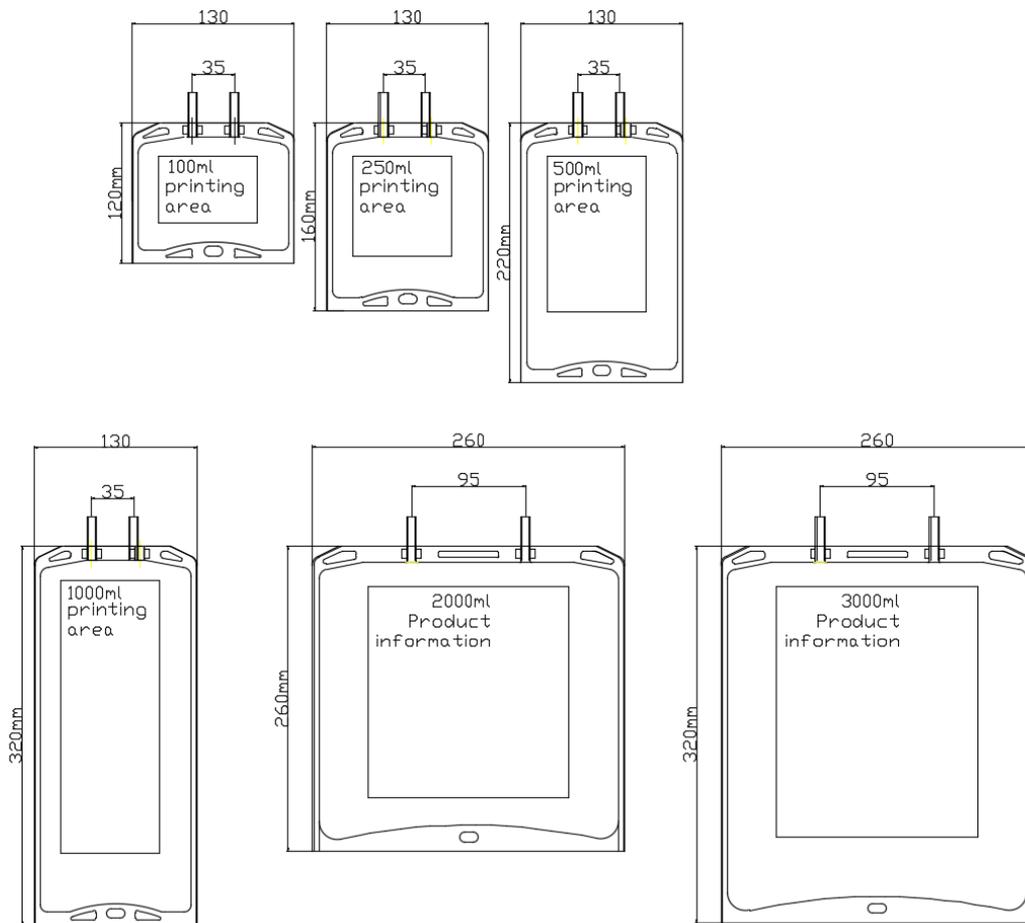
You can purchase raw materials through us !

4. CSS Equipment layout

This diagram is for reference only, Layout is influenced by product specifications.

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5. Bag type and sealing plug drawing



This drawing is for reference only, and the actual drawing agreed upon by both parties shall prevail

6. Design and function

Serial number	Project	Content and description
1	overview	Compatible with the printing, Forming, pipe welding, and output functions of non-PVC soft bag products of the agreed specifications.
2	Structure and work station	The equipment including unwinding, printing, film feeding, hose cutting and supply, bag Forming, hose welding and other stations.
3	Equipment material	Equipment frame and main structural parts are made of 304 stainless steel; The mold is made of high quality die steel and surface treatment; The protective door is made of plexiglass. The material of the purchased parts shall be subject to the relevant statement in its own instruction manual.
4	Software	Control and monitor the operation of the machine through the

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		<p>touch screen;</p> <p>The control system has three-level password permission (set user-level permission according to customer requirements);</p> <p>With the function of report level audit tracking function, the report can be exported, not deleted or modified;</p> <p>Touch screen display device alarm information;</p> <p>Device related parameters can be changed and saved on the touch screen;</p> <p>With data saving function, power off without loss of data;</p> <p>With alarm stop function, errors will be displayed on the touch screen.</p>
5	Security	<p>Reliable grounding of equipment;</p> <p>There is an emergency stop switch on the equipment;</p> <p>After the power is switched on again or the emergency stop is lifted, the equipment can be started again only after the intervention of workers.</p> <p>Safety door with door sensor;</p> <p>Using safety relays;</p> <p>The equipment has an eye-catching safety identifier;</p> <p>All servos have interlocking function to prevent equipment crash;</p> <p>Please refer to the instructions for the matters not covered.</p>
6	Uncoiling station	<p>Manually install the film roll in this station;</p> <p>The film roll is fixed by the inflatable shaft;</p> <p>Release and stop the film roll by motor drive;</p> <p>The film will enter the equipment through a lifting shaft to ensure smooth membrane transport;</p> <p>When the membrane is broken or exhausted, the equipment will alarm and stop.</p>
7	Printing station	<p>The equipment prints product information through hot stamping at this station;</p> <p>The printing module with independent batch number, date and expiry date is provided randomly, and the key information of the product is changed by changing the movable type (a complete set of movable type header is provided randomly);</p> <p>The ribbon and the recovery roll are fixed by the balloon shaft, easy to replace;</p> <p>The ribbon is released and stopped by the motor, and the release length is precisely controlled by the encoder;</p> <p>Printing temperature, time, ribbon length and other parameters can be set through the touch screen.</p>
8	Film Feeding station	<p>This station transmits film material through servo system;</p> <p>Through the pneumatic claw clamping film;</p> <p>Good repetition accuracy, uniform and stable film feeding.</p>
9	Bag Forming	<p>The bag forming section is designed as a single-track linear</p>

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	Main Drive	system, Servo drive is adopted to ensure good stability.
10	Hose transfer station	Having a bracket for mounting a hose reel; The hose coil rotates smoothly and stably on the support; Automatic fixed length cutting hose; Cutting knife edge, cutting film smooth without burr; Cutting knife is easy to replace; The cut hose is automatically installed on the previous owner's transmission jig.
11	Bag-Forming station	The bag Forming station is equipped with a film separator, which can separate tightly fitted film materials. When the membrane material is opened, the cut hose enters between the two layers of membrane material; The gas-liquid booster cylinder is used to complete the welding and cutting around the soft bag. Changing the bag specification by changing the mold and fixture; High precision of mold processing, to ensure the quality of welding and cutting around; The mold adopts integrated design, all molds by independent heater and heat sensor, uniform temperature, fast heat compensation, precise temperature control; The mold is embedded with a cutting knife; Mold replacement is simple, easy to adjust; There is no waste edge between bag and bag, between group and group to reduce the waste of membrane material; Equipment with overheating and temperature loss alarm; The welding temperature and bag-Forming time can be set on the touch screen. Molds do not need active cooling.

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12	Hose welding station	The hose and soft bag are welded together reliably by heating the mold; High precision of mold processing, precise temperature control, effectively prevent leakage of hose root; The welding temperature and time can be set through the touch screen.
13	Output station	Transfer the finished soft bag from the equipment. Customizable conveyor belt. (Separate quotation)
20	Laminar flow hood (Separate quotation)	Can pay to increase the laminar flow hood; The laminar hood has a primary filter and a high efficiency filter, which will provide a 100-level air environment inside the equipment. The frame and outer cover of the laminar flow cover are made of 304 stainless steel; The laminar flow cover will be installed above the equipment frame to cover all stations of the equipment; Laminar flow cover with lamp, UV sterilization lamp, differential pressure meter, etc. A PAO detection port is reserved for the laminar flow hood.
21	Others	Can pay to add online wind speed, online dust particles, online plankton detection and other functions.

7. Equipment main accessories

SN.	Name	Pictures	Brand	Description
1.	PLC		SIEMENS	SIEMENS PLC and related IO module adopts Siemens 1500 series products
2.	HMI		SIEMENS	SIEMENS 12 inch touch screen

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3.	Servomotor			SIEMENS Including Siemens servo controller
4.	Reduction motor			SEW
5.	Air source processor			FESTO Including pressure reducing valve, filter drainage valve, air source switch, pressure sensor and display table
6.	Valve island			FESTO Communication terminal included
7.	Standard cylinder			FESTO Cylinders of all specifications
8.	Air claw			FESTO
9.	Rodless cylinder			FESTO
10.	Tandem cylinder			FESTO
11.	Magnetic switch			FESTO
12.	Proximity switch			IFM
13.	Fiber optic sensor			KEYENCE

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14.	Encoder			OMRON
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The above pictures are for reference only, not for final confirmation.

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8. CSS2 Spare parts list

SN	Name	QTY	UNIT	SPECIFICATION	Brand	Description
1.	Tube knife	6	EA	CSTK	Capstone	---
2.	Knife for film	2	SET	CSS2MK-100ml	Capstone	Knife for 100ml
3.	Knife for film	2	SET	CSS2MK-250ml	Capstone	Knife for 250ml
4.	Knife for film	2	SET	CSS2MK-500ml	Capstone	Knife for 500ml
5.	Knife for film	2	SET	CSS2MK-1L	Capstone	Knife for 1L
6.	Knife for film	2	SET	CSS2MK-1L	Capstone	Knife for 2L
7.	Knife for film	2	SET	CSS2MK-1L	Capstone	Knife for 3L
8.	Hole knife	20	EA	CSS2MKH	Capstone	Be current
9.	Adjustable pad for knife	60	EA	0.02mm	Capstone	---
10.	Adjustable pad for knife	60	EA	0.05mm	Capstone	---
11.	Adjustable pad for knife	60	EA	0.10mm	Capstone	---
12.	Clamp	2	EA	---	Capstone	---
13.	Heating rod	8	EA	230V/1.2kw/345	watelong	For Bag Forming mold
14.	Heating rod	2	EA	230V/150w/100	Watelong	For tube welding mold
15.	Heating rod	2	EA	230V/1.2kw/310	Watelong	For Printing mold
16.	Heating rod	1	EA	230V/1kw/330	Watelong	For Preheat
17.	PT- resistance	4	EA	PT-100	Watelong	Be current
18.	Printing silicone pad	2	EA	CSPSP	Capstone	---
19.	Magnetic switch	3	EA	SDBT-MSB-1L- PU-K-0.3-M8	Festo	Be current
20.	Inductive transducer	2	EA	IE5338	IFM	---
21.	Fibre Optic Sensors	2	EA	FS-N	Keyence	Be current
22.	Cable for sensor	2	EA	2M-M8	Capstone	---
23.	Solid state relay	1	EA	---	Linkfreely	---
24.	Air Tube	5	M	Φ3mm	FESTO	---
25.	Air Tube	5	M	Φ4mm	FESTO	---
26.	Air Tube	5	M	Φ6mm	FESTO	---
27.	Air Tube	5	M	Φ8mm	FESTO	---
28.	Push-in fitting	2	EA	Φ4	FESTO	---
29.	Push-in fitting	2	EA	Φ6	FESTO	---
30.	Push-in fitting	2	EA	Φ8	FESTO	---
31.	Push-in fitting	2	EA	Φ10	FESTO	---
32.	Throttle valve	1	EA	Φ4	FESTO	---
33.	Throttle valve	1	EA	Φ6	FESTO	---
34.	Throttle valve	1	EA	Φ8	FESTO	---
35.	Bolt	1	SET	various specifications	Capstone	---

The above list is two years spare parts, which will be delivered with equipment for free.

The spare parts in the above list are mostly wear parts, which are not in guarantee period

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and have to be purchased again after using.

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The lifespan of laminar flow filter cartridges is influenced by the usage environment and maintenance, which are not in guarantee period.

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