

Mesh Film Laminator

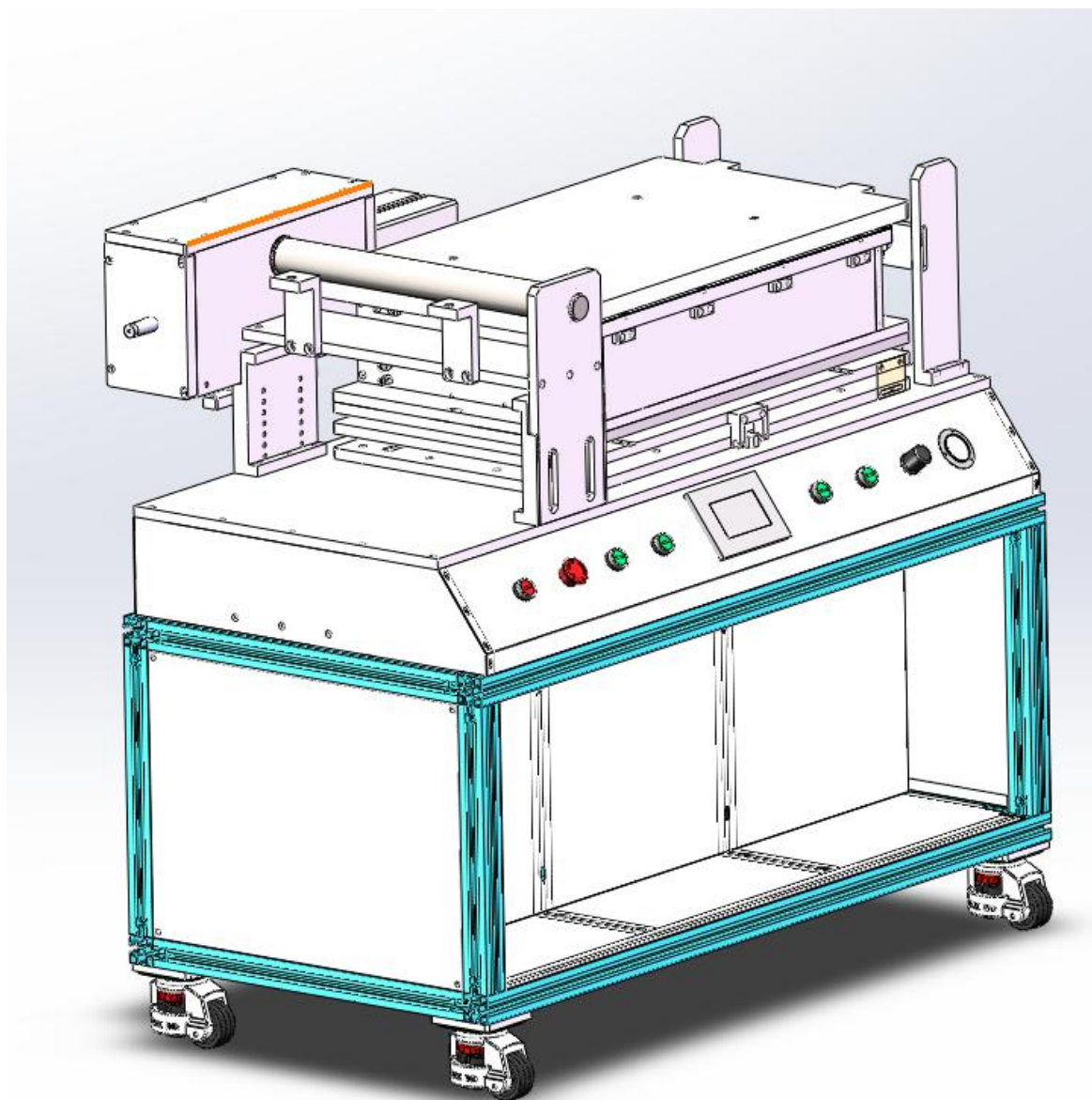
300*400

Specification V1.0

Demander confirmation (customer)	Supplier confirmation (Jiutu)	
【 】	Sales center	R&D center

The data shown in the equipment specification are general model specifications/parameters. If the customer specifies requirements, the two parties will communicate and attach the "Technical Agreement" to confirm and take effect together with the specification.

1.Equipment appearance



2. Equipment Configuration List

NO	Product Name	Model	QTY	Unit	Remarks
1	Mesh Film Laminating Machine	300*400	1	Unit	Assembly equipment
2	PLC		1	Set	Control device
3	Servo drive		1	Set	Transmission device

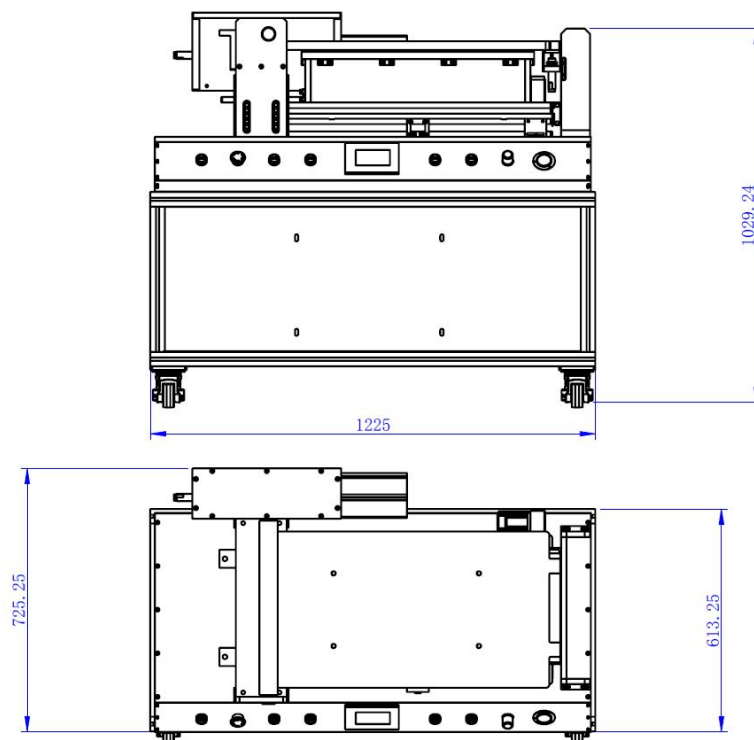
3. Equipment Introduction

This equipment is specially used for the lamination of soft film to hard board and soft film to soft film in the production process of medium-sized touch screens. The equipment is a medium-sized machine, efficient and stable, and the laminating size can reach 300x400mm. It adopts automated control and has high laminating yield, fast speed and good stability.

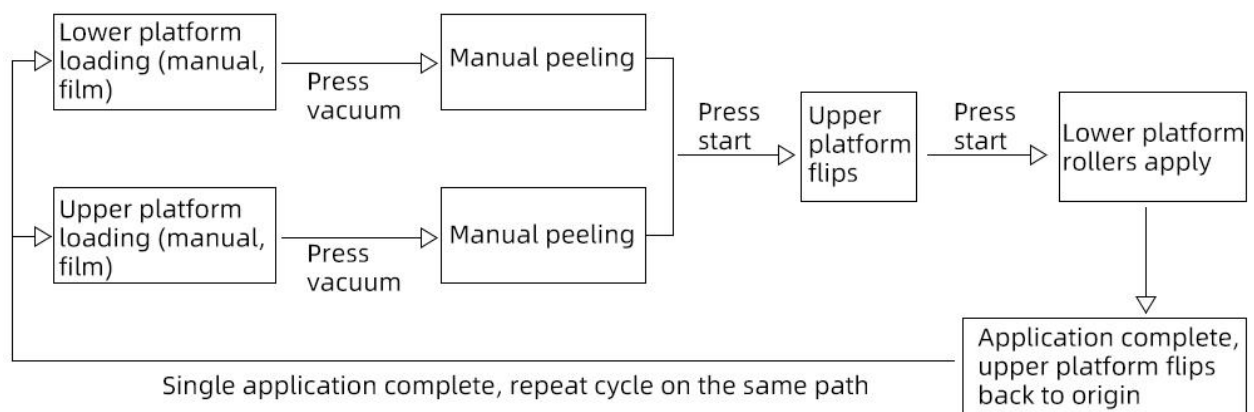
4. Equipment features

- The equipment adopts aluminum alloy, profile and sheet metal structure machines
- Equipment parts are made of excellent materials and brands, and have long service life.
- The material used for the equipment fixture platform has excellent performance and does not deform, and the accuracy of the equipment does not decrease.
- Equipment movement is mainly controlled by the axis, running smoothly and with high precision
- Equipment pneumatic system pressure regulation and throttling, stable control and low air consumption
- Equipment motion module has high repeat positioning accuracy and good product consistency
- The equipment control system has strong anti-interference ability, stable system, fast speed and high production efficiency.
- Equipment operation interface is simple and easy to understand

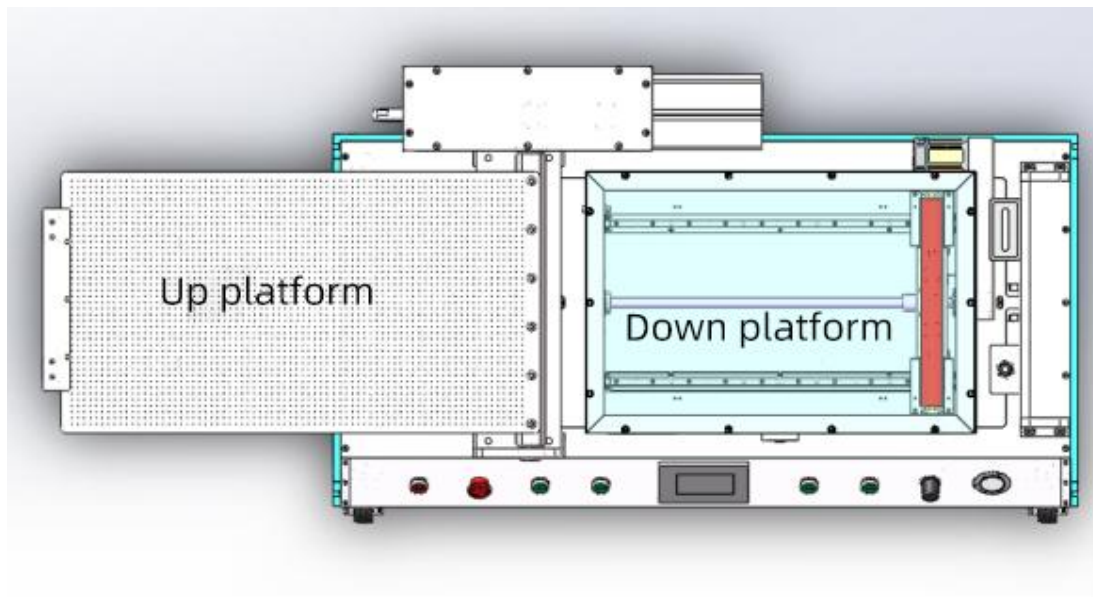
5. Equipment CAD layout drawing



6. Equipment process flow chart



7. Equipment functional structure diagram



8. Equipment Specifications

Machine Specifications		
1	Working environment	Temperature 25± 5°C, humidity 60±5%, cleanliness level 1000
2	Equipment power supply	AC220V 50Hz
3	Equipment gas supply	5~7 kg/cm ² , pipe Φ 12 with quick plug
4	Equipment power	500w
5	Equipment gas consumption	10L/min
6	Vacuum system	Machine comes with
7	Control system	PLC+ touch screen
8	Working height	950±50mm
9	Operation interface	Button operation panel + human-machine interface
10	Equipment dimensions	L1225xW725xH1030mm
11	Equipment weight	400KG
12	Machine color	Standard computer white

Equipment applicable product specifications		
13	Applicable products	15.6 inches
14	Effective fitting size	L400xW300mm
15	Upper platform size	L788xW430mm
16	Lower platform size	L560xW430mm
17	Roller effective length	L=340mm
18	Effective fitting stroke	400mm
Equipment accuracy		
19	Control axis repeatability accuracy	±0.05mm
20	Working platform flatness	0.20mm
21	Equipment repeatability accuracy	±0.10mm
22	Fitting accuracy	±0.20mm (Excluding material error)
Equipment Specifications		
23	Platform vacuum holes	10x10, $\varnothing$ 0.8
24	Mesh screen of the enclosure	200/300 mesh, 16-24 N/cm, polyester, white
25	Upper platform control method	Cylinder control
26	Lower platform control method	Servo motor control
27	Laminating force range	≤30Kg
28	Alignment method	Positioning by corner
29	Parameter debugging method	Modifying data in the touchscreen parameter settings interface
30	Product changeover method	For existing specifications, the switching time is less than 15min; For new specifications, the switching time is less than 30min.
31	Production cycle time	6S (excluding manual operation time)
Safety protection		

32	Emergency stop button	After pressing the emergency stop button, the device needs to find the origin again after manually resolving the fault.
33	Electrical protection	The circuit is equipped with short-circuit protection; The control has an electrical interlocking design to prevent misoperation; The function is equipped with signal feedback such as vacuum detection
34	Safety sign	Locations with AC30V or above, DC60V or above, and 240VA or above; Locations with surface temperature exceeding 50°C; Locations with mechanical movement
Anti-static device		
35	Ion fan	Optional
36	Static grounding	Optional

10. Main parts brands

No.	Item	Brand Used	Alternative Brands	Remarks
1	Linear guides	AOSK	AOSK/HIWIN/PMI/CSK/THK or equivalent brand	
2	Ball screws	AOSK	AOSK/TBI/HIWIN/THK or equivalent brand	
3	Servo motors	XINJIE	YASKAWA/Panasonic/Leadshine / Yaskawa / Xinje / Inovance or equivalent brand	
4	Pneumatic actuator	XINGCHEN	SMC/MAXAIR/AirTAC/XINGCHEN or equivalent brand	
5	Vacuum generator		Schmalz/piab/SMC/AIRBEST or equivalent brand	
6	Touch screen	XINJIE	Kinco/WEINVIEW or equivalent brand	
7	PLC	XINJIE	OMRON/Panasonic/MITSUBISHI/KEYENCE or equivalent brand	
8	Sensor	Huayifeng	HuaYifeng/OMRON/Panasonic/KEYENCE/SICK/Leuze/Autonics or equivalent brand	Using different types of materials
9	Electrical control element	CHNT	SCHNEIDER/CHNT or equivalent brand	Using different types of materials
		Mean Well	Mean Well, Izumi or equivalent brands	

10	Pneumatic control element	XINGCHEN	XINGCHEN/SMC/CKD/FESTO or equivalent brands	
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11. Items and information included with the device

No.	Type	Item	Available or Not	Remark
1	Items comes with machine	Special tools	No	
2		Equipment spare parts	No	Provide spare parts list, separate purchase
3		Equipment wearing parts	No	Provide a list of wearing parts, separate purchase
4	Documents comes with machine	Equipment operation manual	Yes	Paper/electronic version, including electrical wiring diagram
5		Equipment usage video	Yes	Equipment operation, debugging, product line change

12. After-sales service

1	Equipment warranty regulations	The whole machine is guaranteed for one year from the date of delivery, and there is no time limit for after-sales service; if the equipment is resold, it is not covered by the warranty.
2	Free warranty part	Under normal use conditions, damage caused by poor processing and manufacturing will be repaired free of charge for an unlimited period of time.
3	Paid service part	The vacuum pump and high-speed fan are only warranted for 3 months, which means that the user must bear the repair costs if the damage is caused by overload use; Equipment consumable parts are not covered by the warranty except for quality issues.
4	Disclaimer	Damages caused by force majeure such as natural disasters; Damages caused by malfunctions due to your company's transformation; Damages caused by malfunctions due to improper use and poor maintenance; Compensation for secondary losses such as production line stoppage and property damage, including production guarantees; Material-related costs required for equipment trial operation.

13. Equipment Use Training Plan

Training Program List					
No.	Project Name		Training Time	Number of Trainees	Remark
1	Equipment operation	Use Operation	30min	2	Equipment operator Engineering (debugging) Technology (manufacturing) Equipment (manager)
		Debugging parameters	45min	2	
		Product change production line	30min	2	
2	Safety precautions		15min	All	
3	Equipment maintenance		15min	2	Equipment (Management)
4	Equipment Troubleshooting		30min	2	Engineering (debugging personnel) Equipment (manager)

14. Equipment acceptance

After the equipment enters the factory, we will immediately confirm that the equipment meets the "Equipment Specification" and usage requirements in terms of structure, performance, accuracy, operation, safety, etc., and then accept and implement them one by one under the condition that your company's inspection personnel are present.