
Film Laminator

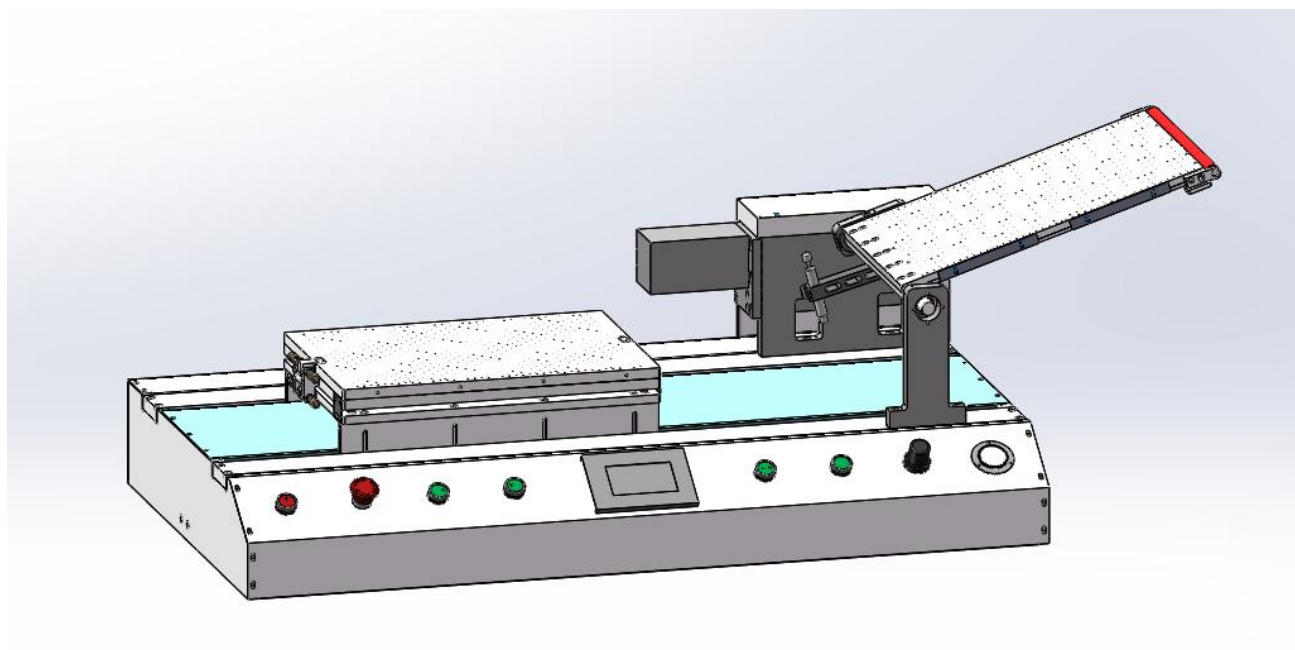
9TU-M068H 300*400

specifications 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

N O	Product Name	Model	Quantity	Unit	Remarks
1	Film laminator	9TU-M068H	1		

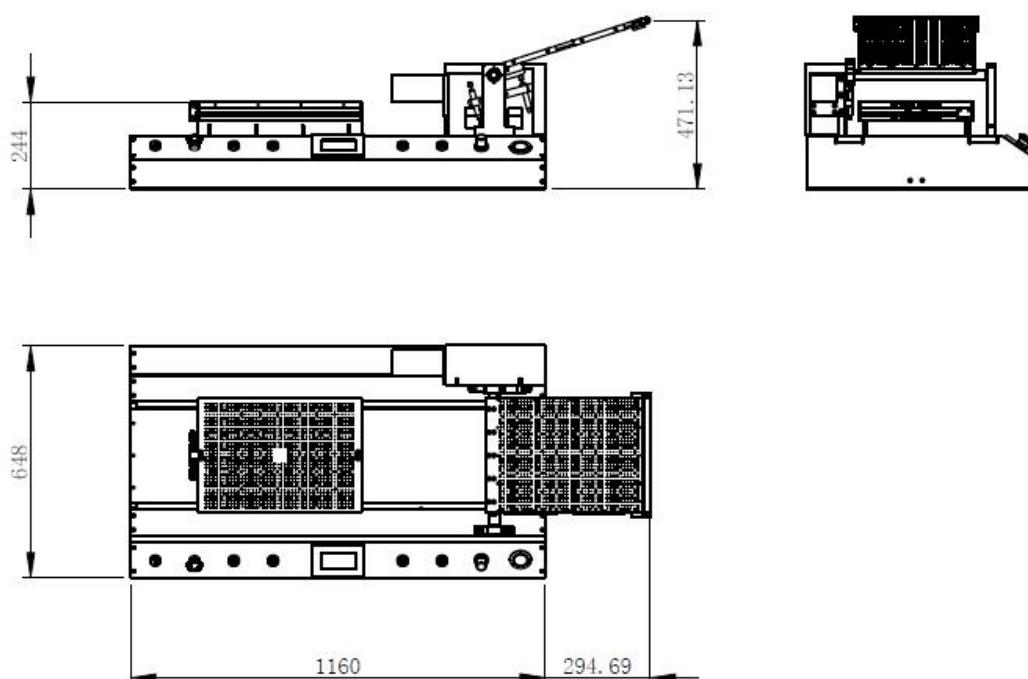
3. Equipment Introduction

This equipment is specifically designed for bonding flexible films to rigid boards and flexible films to flexible films during the production of medium-sized touch screens. The equipment is a medium-sized machine that is highly efficient and stable, and the bonding size can reach 300x400mm. It adopts automated control, resulting in high bonding yield, fast speed, and good stability.

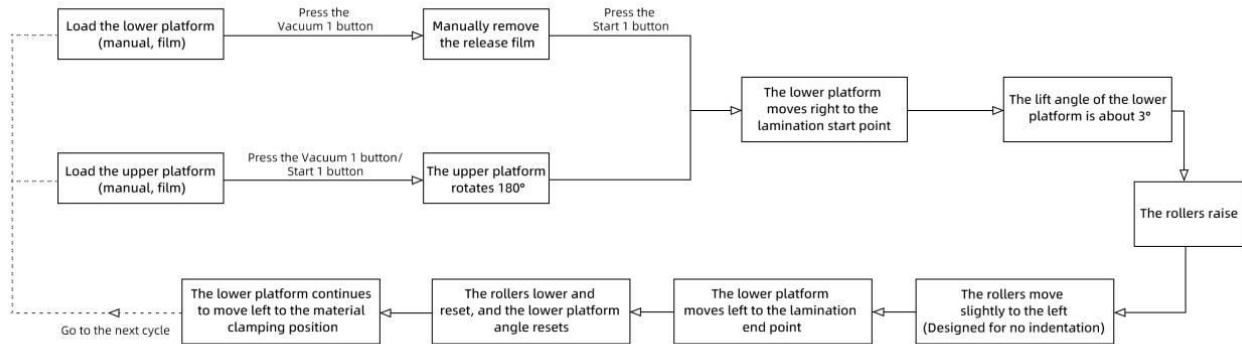
4. Equipment features

- The equipment adopts an aluminum alloy, profile, and sheet metal structure.
- The equipment components are selected from high-quality materials and brands, ensuring a long service life.
- The equipment's fixture platform uses high-performance, non-deformable materials, maintaining the equipment's precision.
- The equipment's movements are primarily controlled by axes, resulting in smooth operation and high precision.
- The equipment's pneumatic system features pressure regulation and throttling, ensuring stable control and low air consumption.
- The equipment's motion modules have high repeatability, resulting in good product consistency.
- The equipment's control system has strong anti-interference capabilities, ensuring system stability, high speed, and high production efficiency.
- The equipment's user interface is simple and easy to understand.

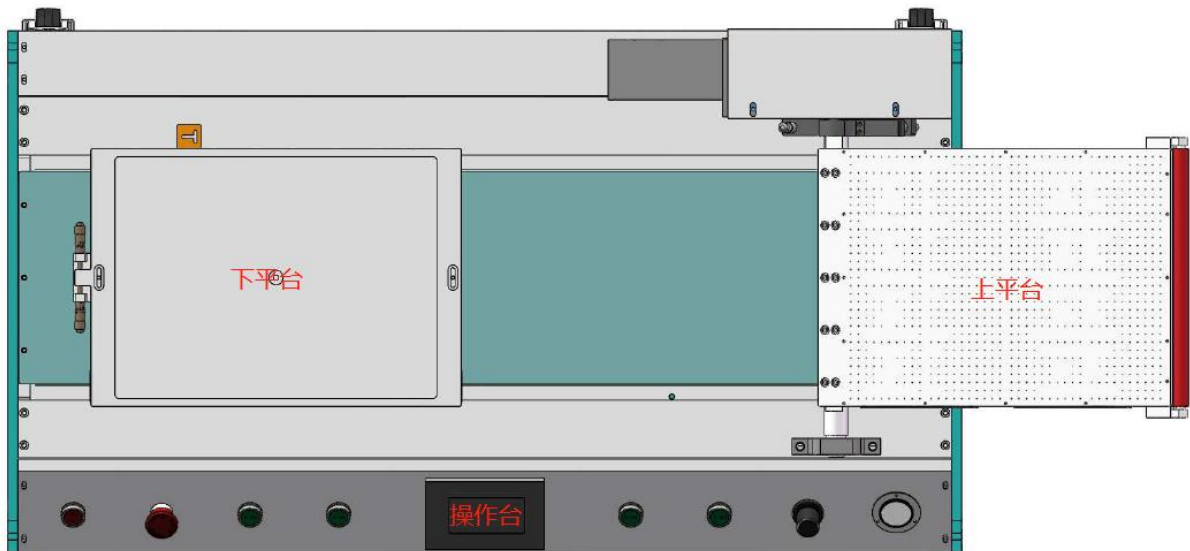
5. Equipment CAD layout drawing



6. Equipment process flow chart



7. Equipment functional structure diagram



8. Equipment Specifications

Machine Specifications		
1	Working environment	Temperature $25 \pm 5^{\circ}\text{C}$, humidity $60 \pm 5\%$, cleanliness level 1000

2	Equipment power supply	AC220V 50Hz
3	Equipment gas supply	5~7 kg/cm ² , pipe $\varnothing$ 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	1000 $\pm$ 50mm
9	Operation interface	Button operation panel + human-machine interface
10	Equipment dimensions	L1185xW648xH1280mm
11	Equipment weight	200Kg
12	Machine color	Standard computer white
Equipment applicable product specifications		
13	Applicable products	15.6 inch
14	Effective fitting size	L400xW300mm
15	Upper platform dimensions	L460xW320mm
16	Lower platform dimensions	L460xW320mm
17	Roller effective length	L=320mm
18	Effective fitting stroke	400mm
Equipment accuracy		
19	Control axis repeatability accuracy	$\pm$ 0.05mm
20	Working platform flatness	0.20mm

21	Equipment repeatability accuracy	$\pm 0.10\text{mm}$
22	Fitting accuracy	$\pm 0.20\text{mm}$ (Excluding material error)
Equipment Specifications		
23	Upper platform vacuum hole	10x10, $\varnothing 1.5$
24	lower platform vacuum hole	10x10, $\varnothing 1.5$
25	Upper Platform control method	Cylinder control
26	Lower Platform control method	Servo motor control
27	Laminating output range	$\leq 30\text{Kg}$
28	Alignment method	Corner positioning
29	Parameter debugging method	Modify data on the touch screen parameter setting interface
30	Product line change method	For existing specifications, the switching time is less than 15 minutes; For new specifications, the switching time is less than 30 minutes.
31	Production rhythm	6S (excluding manual working 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 accessories

36	Static grounding	Optional accessories
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9. Main parts brands

No.	Item	Use brand	Optional brand	Remark
1	Linear guide rails	AOSK	AOSK/HIWIN/PMI/CSK/THK or equivalent brands	
2	Ball screws	AOSK	AOSK/TBI/HIWIN/THK or equivalent brands	
3	Servo motors	XINJIE	YASKAWA/Panasonic/Leisai/Yankong/Xinjie/Huichuan or equivalent brands	
4	Pneumatic actuators	Xingchen	SMC/MAXAIR/AirTAC/Xingchen or equivalent brands	
5	Vacuum generators		Schmeiss/piab/SMC/AIRBEST or equivalent brands	
6	Touch screens	XINJIE	Kinco/WEINVIEW or equivalent brands	
7	PLCs	XINJIE	OMRON/Panasonic/MITSUBISHI/KEYENCE or equivalent brands	
8	Sensors	Huayifeng	OMRON/Panasonic/KEYENCE/SICK/Leuze/Autonics or equivalent brands	Use different types of materials
9	Electrical control components	CHNT	SCHNEIDER/CHNT or equivalent brands	Use different types of materials
		Mean Well	Meiwei, Izumi or equivalent brands	
10	Pneumatic control components	Xingchen	SMC/CKD/FESTO or equivalent brands	

10. 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

11. 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.

12. 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)

13. 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.