

700*1200mm OCA LAMINATOR

Specification

The equipment specification will be updated according to customer needs

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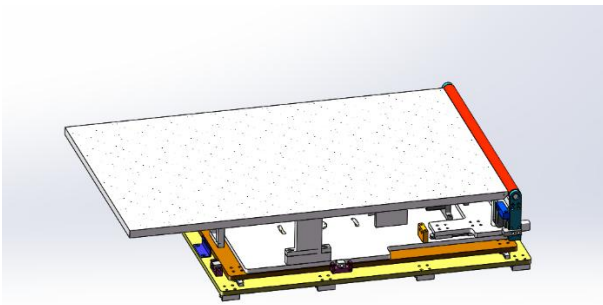
1.1. Precautions When Using the System

For safety reasons, please operate our machines in accordance with the following guidelines.

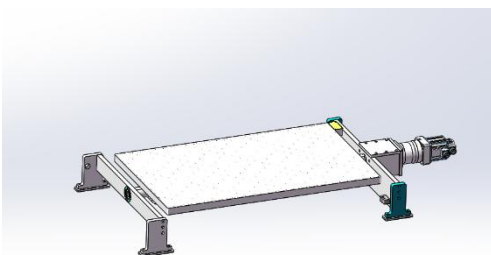
1. During operation, avoid placing any part of your body, such as hands or fingers, in the machine's moving area or in high-voltage areas to avoid injury.
2. The machine should be operated by a designated person.
3. Before operating the machine, ensure that no objects unrelated to the product (such as tools) are inside the machine, and that products or materials are not placed where they should be.
4. Keep all sliding doors closed while the machine is operating.

1.2 Parts That Can Cause Personal Injury

The following components have certain potential dangers during operation. Please do not put your hands within the operating range of the components.



(Downward suction translation platform)



(Upward suction flip platform)

1.3 Precautions regarding electric shock

1. Even if the device's main power switch is off, residual current may still be present in the system (device).
2. Be extremely careful of electric shock if you touch components around the switch.
3. Never touch wiring terminals.
4. This device uses a 220V input voltage. Therefore, when performing maintenance, always turn off the main power switch and ensure that the device itself is not powered.
5. Because voltage/current may still remain in device components even after the main power switch is turned off, ensure that the system (device) is properly grounded before use.
6. Place "Warning" labels around hazardous components.

1.4 Other warnings

1. Before each day's operation, be sure to regularly inspect all machine components, especially moving parts, to ensure proper operation.
2. If any abnormality is detected during machine operation, immediately press the Emergency Stop (EMO) button and notify the responsible personnel promptly.

1.5 Warning Label

1. Warning labels used in the equipment

During installation, commissioning, operation, and machine maintenance, pay particular attention to personal safety. Correct operating procedures must be followed during equipment operation, and safety warning signs must be observed. Warning labels used on the equipment are shown below, along with accompanying text. Safety awareness must be strengthened in areas of the equipment where warning labels are affixed.



There are moving machine parts here. Do not place your hands or fingers casually. Otherwise, your hands or fingers may be accidentally injured when the machine is running.

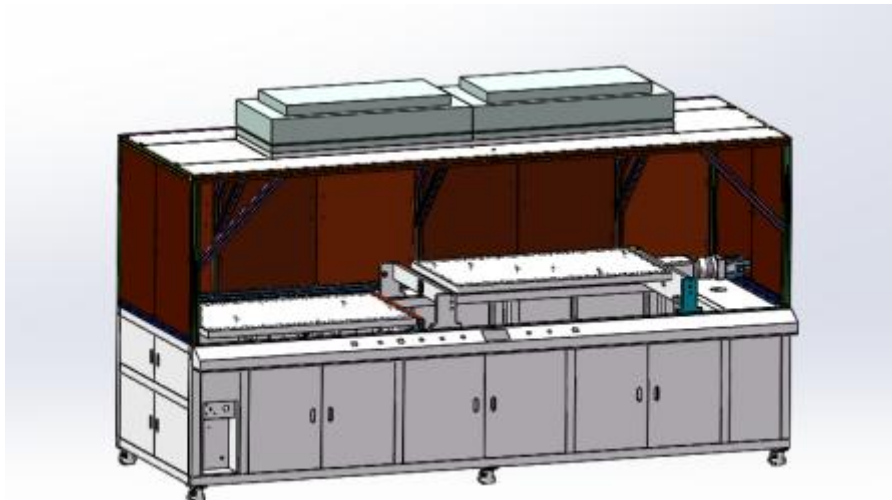


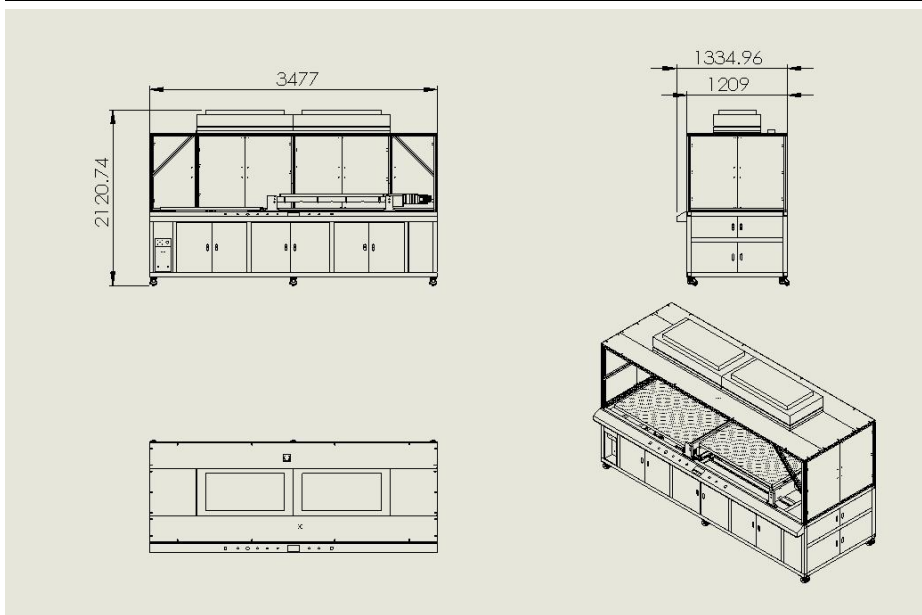
Non-professionals are not allowed to open the device without permission to avoid unnecessary personal injury due to unfamiliarity with the device.

2.1 Overall description of the equipment

1. This equipment is specifically designed for laminating soft film to hard board and soft film to soft film during the production of large-size touch screens. This medium-sized machine features efficient and stable single-sided flip-over operation, and can laminate panels up to 700*1200mm. It utilizes automated control and automatic alignment, resulting in high yield, high speed, and excellent stability.

Attached is the machine size diagram:





2.2 Device Function

1. The machine is suitable for soft-to-soft and soft-to-hard lamination processes.
2. Manual loading and unloading, automatic lamination.
3. 700*1200mm lamination dimensions.

2.3 Equipment Structure

2.3.1 Equipment Unit

No.	Item	Specification	QTY	Remark
1	Equipment Dimensions	3477*1335*2121	1	
2	Turning Template Dimensions	750mmX1250mm	1	
3	downward template size	750mmX1212mm	1	
4	Effective Fitting Dimensions	700MM*1200MM		
5	Equipment User Interface	switch button	1	

2.3.2 Workbench part

No.	Item	Specification	QTY	Remark
1	Pressed product dimensions	700mmX1200mm	1	
2	Workbench operation	Button operation		

2.4 Equipment specifications

2.4.1 Performance

No.	Item	Specification	Productivity	Remark
1	Equipment Capacity (C/T: Cycle Time)	Every 6-10 seconds	Approximately 270 pieces/hour	
2	Equipment Failure Rate	≤2%		
3	Product Qualification Rate	≥98%		Defective incoming materials are not included

2.4.2 Parameter control

No.	Item	Specification	Remark
1	Parameter settings	Flip fit parameters can be set	

2.4.3 Electrical parameters

No.	Item	Specification	Remark
1	Control system	Touch screen PLC, servo motor, control buttons and pneumatics.	
2	Solenoid valve	CKD	
3	Push button switch	Jiayi	
4	Pneumatic cylinder	Xingchen	
5	Touch screen/PLC	Xinjie	
6	Servo motor + drive	Xinjie	

7	Screw screw	TBI	
8	Circuit protection	Improper operation will cause the machine to stop functioning. If the machine stops functioning after pressing the emergency stop button, it will reset. Earth leakage circuit breaker for protection against electric shock. The grounding of the anti-static plug is separate from the power ground.	
9	Anti-static plug grounding requirements	Separate the anti-static plug grounding from the power grounding	
10	Identification of gas pipes/wires, etc.	Wire numbers are marked on both ends of the wires. Gas pipes are marked on both ends. Electrical accessories are fully labeled.	The logo is consistent with the design drawing
11	Safety protection	Emergency stop buttons are installed on the left and right sides of the machine where the operator stands.	

2.4.4 Electrical Supplement

No.	Item	Specification	Remark
1	Power supply and demand	1) AC220V/50Hz/3KW 2) There is a 3m long wire outside the machine, at the end of which is an industrial plug for connecting to the factory power supply.	
2	Compressed air	1) Hose Color: White 2) Hose Diameter: $\varnothing$ 8mm 3) A 3m long $\varnothing$ 8mm hose is left outside the machine, with a quick-connect connector at the end for connecting to the factory air supply. 4) Operating Air Pressure: 0.40-0.60 MPa 5) Air Consumption: $\approx$ 10 L/min	

3	Vacuum	Vacuum Control Method: Vacuum Pump Vacuum Capacity: ≈60 L/min Vacuum Tubing Color: Transparent	Vacuum equipment comes with
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2.5 Others

No.	Item	Specification	Remark
1	Machine weight (kg)	Approx. 700KG	
2	Machine color	The machine surface is powder-coated and painted in white. Other parts are chrome-plated or oxidized	
3	Delivery status	Equipment surfaces must be clean and dust-free. Warning signs should be posted in areas where high temperatures or other hazards exist.	
4	Use environment requirements	Clean, dust-free, cleanroom	

3.1 Receiving inspection of equipment

3.1.1 Surface and Metal Structure

Inspect the equipment for peeling or scratched paint.

Inspect the equipment for loose parts, cracks, or other signs of damage.

3.1.2 Buttons and Screws

Inspect for loose or missing parts.

3.1.3 Overall System

Inspect the machine's sheet metal cover and all components to ensure they are secure and not damaged.

3.2 Equipment Installation Precautions

3.2.1 Pre-installation Inspection

The machine will be installed and debugged at the factory. After unpacking, check for loose components and damage. Before installation, check all dimensions of the

machine, ensuring adequate clearance around the machine.

3.2.2 System Installation Environment

Avoid installing in the following locations to prevent accidents:

Exposed to sunlight

Located in locations subject to electromagnetic interference

Near heat sources

Out of temperature range ($<19^{\circ}\text{C}$ or $>26^{\circ}\text{C}$)

Out of humidity range ($\leq 40\%$ or $>70\%$)

Located in locations without adequate ventilation

Located in locations subject to moisture

Located near fire sources

Located in locations where the system could be damaged by chemicals or gases

Located on uneven surfaces

3.2.3 Installation space

For safe operation, the system must be installed at least 1.0m away from any wall.

Move the device to the appropriate location.

Use the four support legs to support and level the unit, and then connect the gas and electrical lines.

3.2.4 Power supply

Please provide power and voltage according to the instructions. This system requires an independent power source and must not be connected to other devices.

Connecting the power cord with wet hands is extremely dangerous!

After connecting the power cord and turning on the power, please note the following:

Make sure the power cord is not loose.

Make sure the power cord is not cracked or scratched.

Make sure the power plug and power cord are not abnormally hot.

Connect a ground wire to the system to avoid electric shock.

The ground wire is a green wire.

The ground terminal should be marked with a "GND" sign or with a ground rod.

For easy ground connection, use a plug suitable for the surface structure or a terminal on a distribution board.

3.3 Gas and electricity access

3.3.1 Insert the 8mm air hose into the air conditioning unit. Connect the hose to the factory air supply and adjust the air conditioning unit pressure to 5 bar.

3.3.2 Connect the power plug to the 220 factory power grid.

4.1 Pre-operation inspection

4.1.1 Check that the air pressure reaches 5 brass.

4.1.2 Check that the power is on.

4.1.3 Turn on the power switch and check that the screw has returned to its origin position normally and that all cylinders are in their home positions.

4.1.4 Once all is confirmed, you can operate the equipment.

4.2 Operation process

1.	Process Flow	1) Manually place the glass sheet on the left (or right) workbench, adjust its position, and vacuum seal. 2) Place the membrane sheet on the mesh cage platform and remove the protective film from the membrane structure adhesive. 3) Press the start button to rotate the cylinder 180 degrees. 4) After the 180-degree rotation, the lower workbench, driven by the motor, moves to the right to complete the bonding process. 5) Reset, and the single cycle is complete.	Feature 1: The fim material is laminated upward on the lower platform, solving the problem of film falling off and being damaged on the upper flap
2.	Fitting Accuracy (mm)	$\leq \pm 0.1\text{mm}$	
3.	Loading and	One or two people can load and	

	Unloading	unload materials at different locations.	
4.	Product Changeover	1) Universal template, made of anti-static and scratch-resistant material. 2) When replacing a new product, the adjustment time is approximately 10 minutes.	

5. Documentation and After-Sales Service

No.	Item	Specification	Remark
1	Documents	One operating manual	Chinese, provided upon delivery
2	Training Content	1) Equipment Installation and Adjustment 2) Equipment Operation 3) Equipment Adjustment and Parameter Setting 4) Equipment Maintenance 5) Troubleshooting Common Equipment Problems 6) Replacement of Fragile Equipment Parts 7) Other Precautions	Training begins on the day the equipment is installed. Training duration is one day. If necessary, the training period can be extended or shortened through mutual agreement
3	After-Sales Service	The equipment is guaranteed for one year under normal use, including installation and commissioning after the machine arrives at the factory and personnel training	