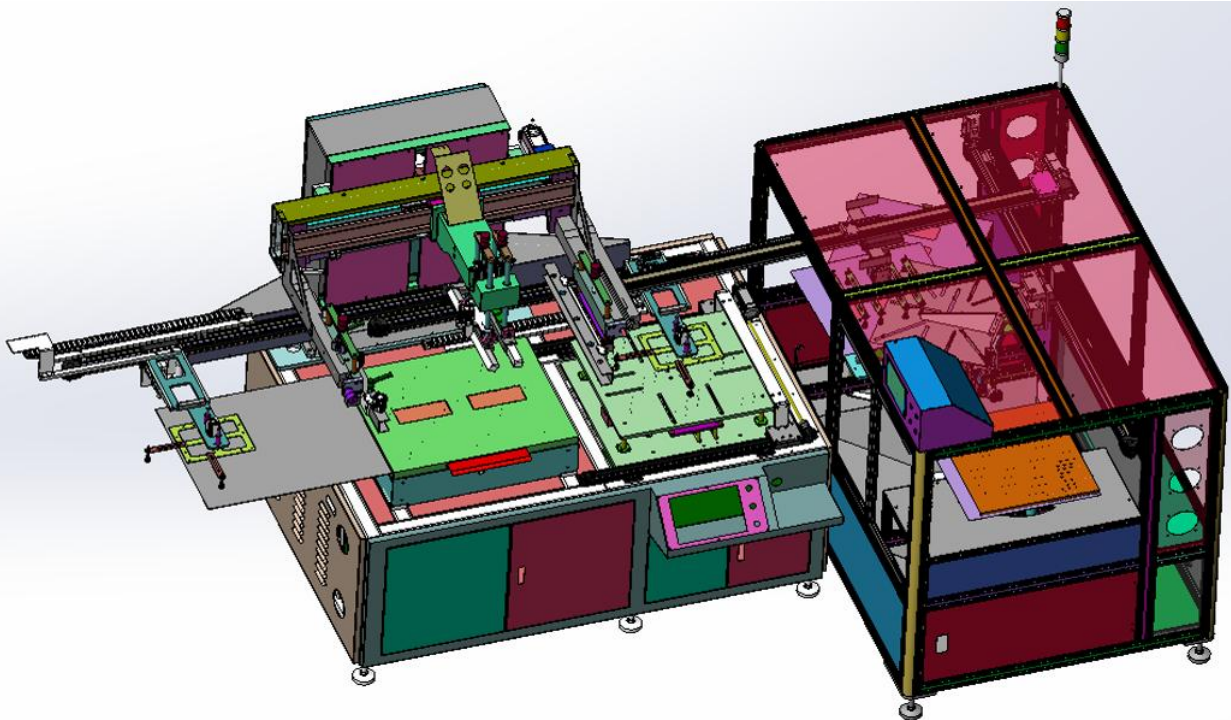


Automatic Film-tearing CCD Screen Printing Machine



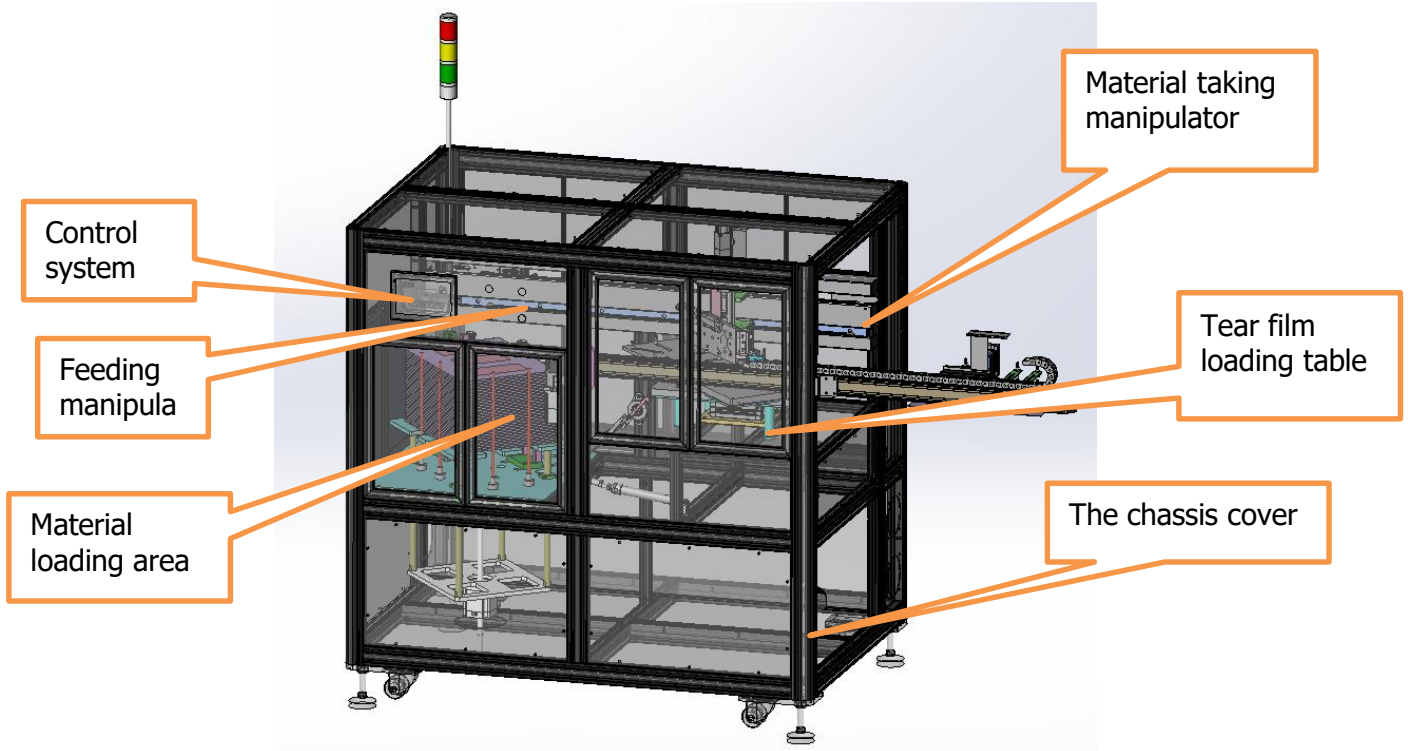
VT4060P-KS Machine physical drawing



VT4060P-KS Machine Schematic diagram

Specification of Film-tearing Machine

Schematic diagram of equipment mechanism(Auto film-tearing part)



Equipment workflow

1. Material preparation and adjustment

Place the stack of materials on the loading platform, adjust the loading platform's jamming position and the loading and picking positions of the picking robot.

2. Loading and tearing the film by the tearing manipulator

The film tearing robot takes a sheet of material from the loading table to the film tearing loading table. When the robot returns, the sticky layer roller presses down to hold down the edge and corner of the material, and the sticky liner rolls on the roller to tear off the film.

3. Material pick-up manipulator

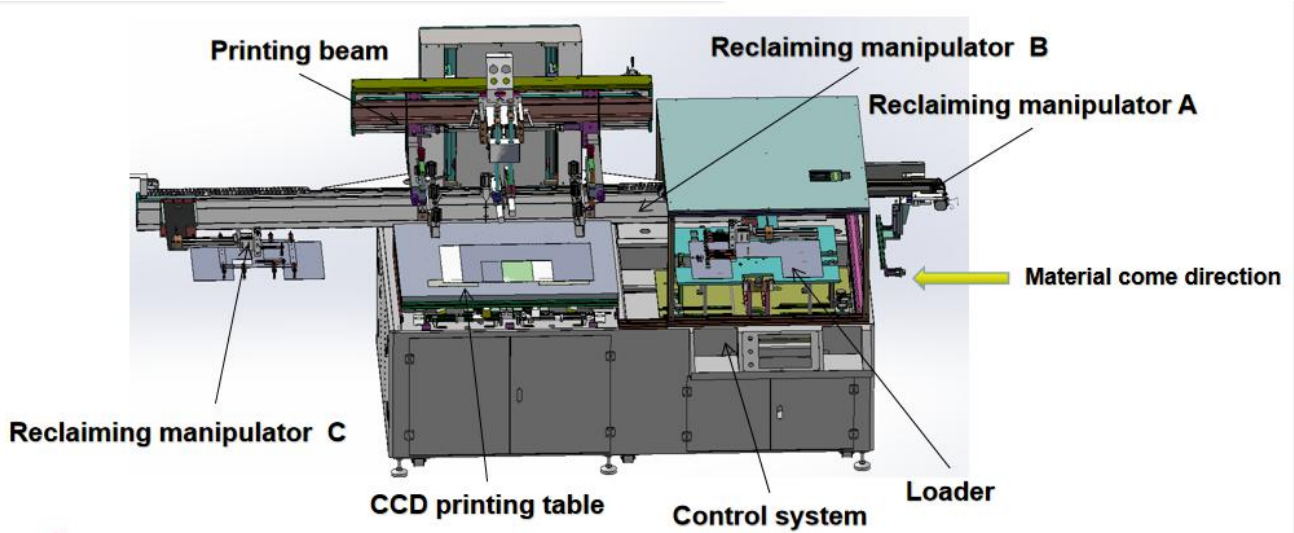
After the film is torn off from the tearing table, the material is then taken by the pick-up robot and placed on other workstations to complete the tearing process.

The equipment parameters

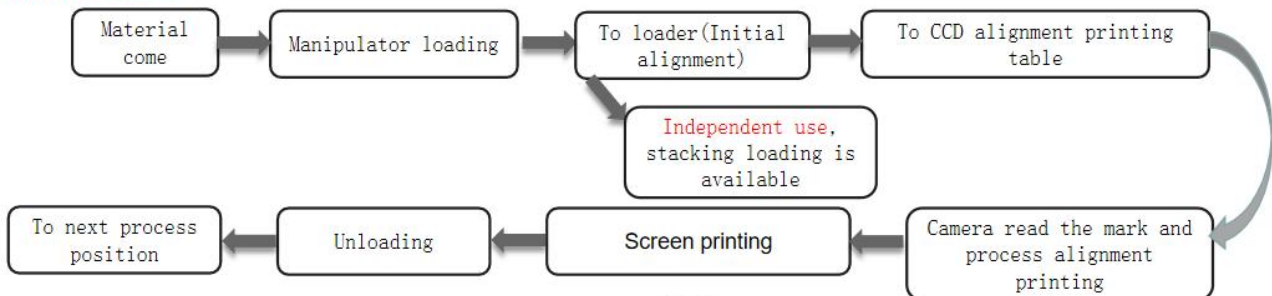
Equipment size	2600*1300*1600 mm
Material size	MAX 700*700mm MIN 300*300 mm
Control mode	PLC、 Stepper motor, cylinder, gear motor
Power supply	AC 220V
Air pressure	0.6MPa~2MPa
Mode of operation	Touch screen
Machine weight	About 600KG
Repeated positioning accuracy	$\leq \pm 2\text{mm}$

Specification of Sheet CCD Alignment screen printing machine

Schematic diagram of equipment mechanism(CCD Alignment printer)



Process flow:



1.Features and performance.

- 1.The sliding seat is processed with an integral aluminum dosage form, which is light in operation without shaking.
- 2.The screen clamping frame adopts pneumatic automatic clamping design, which is easy to operate.
- 3.The printing adopts Panasonic servo motor with linear guide rail guidance, which is fast, stable and accurate.
- 4.Man machine interface control + button switch, which can set multiple functions and parameters, and is easy to operate.
- 5.The safety pressing plate, photoelectric switch and emergency stop button shall be carefully protected.
- 6.CCD automatic positioning printing can automatically adjust the CCD field of vision according to the size of the material.

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7.CCD automatically calculates the space position of the material and the screen plate according to the Mark point on the material, and commands the motor to control and adjust the platform X, Y θ Rotary automatic positioning printing.

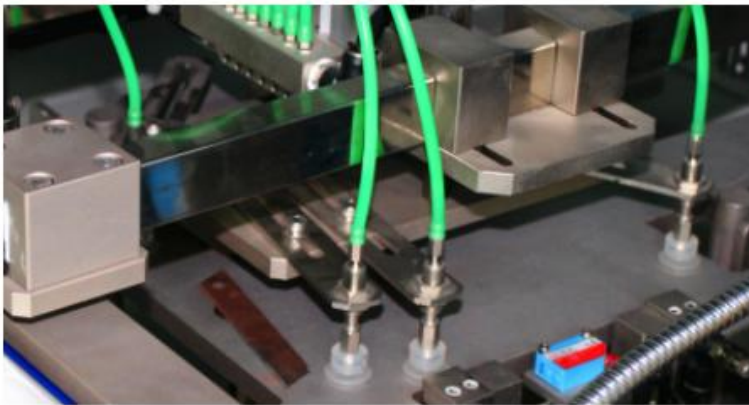
8.The manipulator adopts automatic material separation, automatic dust removal, and automatic positioning printing on the printing machine.

9.The material thickness of the manipulator is 0.05mm~5.0mm. The feeding direction of the manipulator is from right to left.

10.The method of material distribution adopts half sheet separation, overall shaking, and multiple sheets detection after material distribution.

11.It can be customized according to customer requirements to meet different use requirements.

2.Details of the printing machine



Automatic vacuum loading device

By pumping air to create negative pressure, the glue head sucks up the sheet and the mechanical arm repeatedly shakes to prevent the sheet from sticking. The sheet is then placed precisely in the printing position.

Printing Table and Printing Head

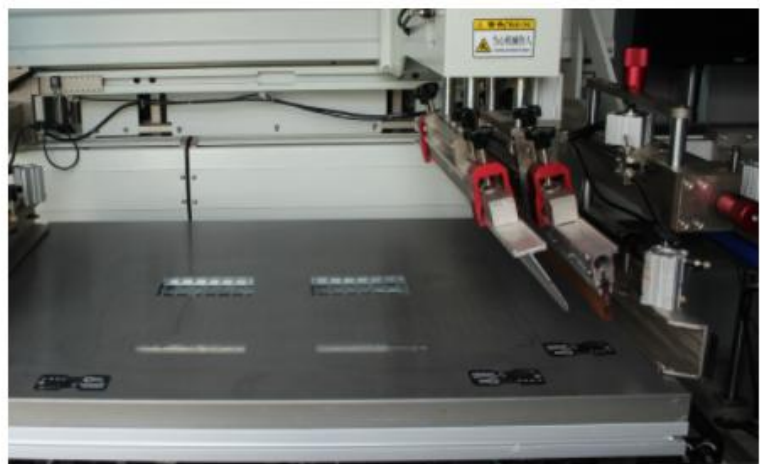
Vacuum table with air suction during printing process.

3 sensors for automatic register in X-Y directions.

Printing head horizontal movement by servo motor.

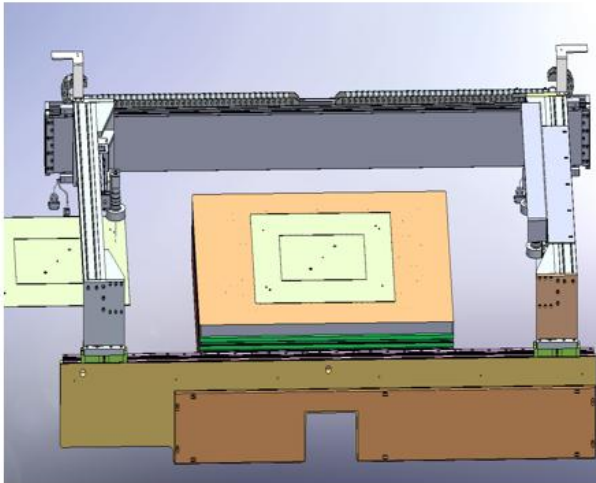
High precision rails and bearings for running parts.

Squeegee dripless design



3. The difference from Shenzhen Machine: Camera position

Shenzhen: Upper camera



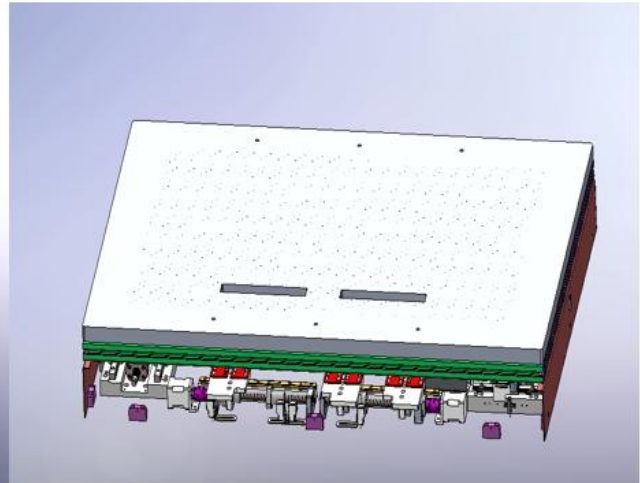
Upper camera advantages:

- 1: It is suitable for both transparent and opaque substrate material.
- 2: Its adjustable CCD field of view is larger than bottom camera.

Upper camera disadvantages:

Bigger floor space & efficiency is relatively lower

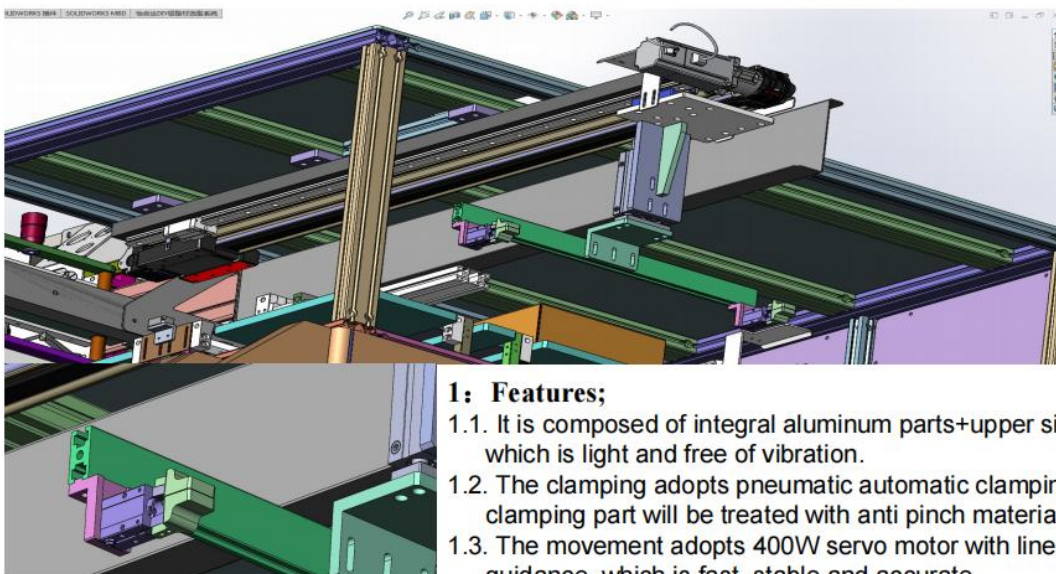
Bottom Camera



Bottom camera features:

1. It is not suitable for opaque substrate material;
2. Fast read mark, efficiency is relatively higher
3. Smaller floor space.

4. Manipulator



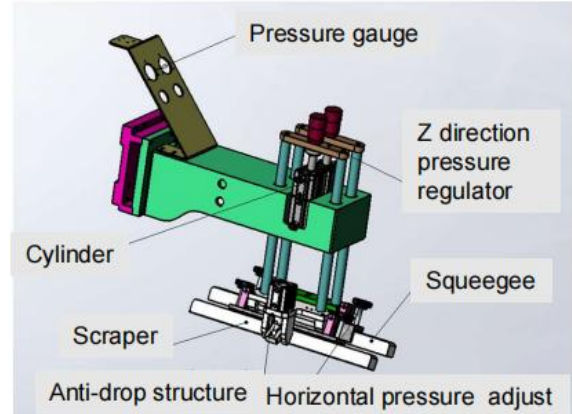
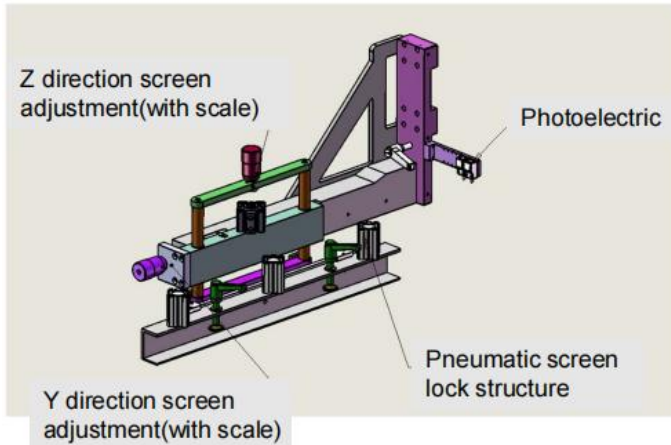
1: Features;

- 1.1. It is composed of integral aluminum parts+upper silver guide rail, which is light and free of vibration.
- 1.2. The clamping adopts pneumatic automatic clamping design, and the clamping part will be treated with anti pinch materials.
- 1.3. The movement adopts 400W servo motor with linear guide rail guidance, which is fast, stable and accurate.

2: Function:

- 2.1. Loading and unloading material

Screen Holder & Squeegee Holder



Main function: The screen frame is fixed by pneumatic pressing and positioning hole, which is convenient and fast to operate. The screen frame adjustment is equipped with a scale handle, which is easy to operate; The scraper and squeegee are equipped with pressure digital display meter, which is convenient for adjustment.

5、 Technical parameter:

Item	Parameter
Printing table area	600*900mm
Max printing area	400*600mm(customizable)
Max screen frame size	800*900mm
Max screen frame thickness	25-55mm(customizable)
Max printing speed(full speed)	About 500PSC/H
Power supply	Three Phases, 380V, 50Hz
Air supply	4 ~ 6kg/cm ² PSI
Air consumption	2.6L/cycle
CCD alignment accuracy	±0.02mm

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Shenzhen Vility Automatic Machinery Co., Ltd

Printing accuracy	±0.05mm(non-shrinking & screen extension)
Center distance of two CCD	330mm (adjustable range: horizontal ±200mm)
Equipment dimension	L3200*W1550*H1880mm(included unloading arm)
Equipment weight	About 1800kg

FAQ :

Q: Are you manufactory or trade company?

A: VILITY is a famous brand manufacture of Shenzhen City, Guangdong Province, China.

Q: Can you make particular design according to our requirements?

A: Yes, we can make a special change according to your requirements.

Q: What are your payment terms?

A : 50% deposit and 50% balance before delivery, T/T against copy of Bill of Landing.

Q: What is your company's production capacity?

A:30 Sets/ Month.

After-sales service :

1,We have a rich experience, technical good, service awareness ahead of the professional team, can be timely and effective solve the problem for you.

2,Installation and debug machine for you without any charge. Also, giving a technical training for your employees.

3,All of our machines can have one year guarantee and lifelong maintenance.

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