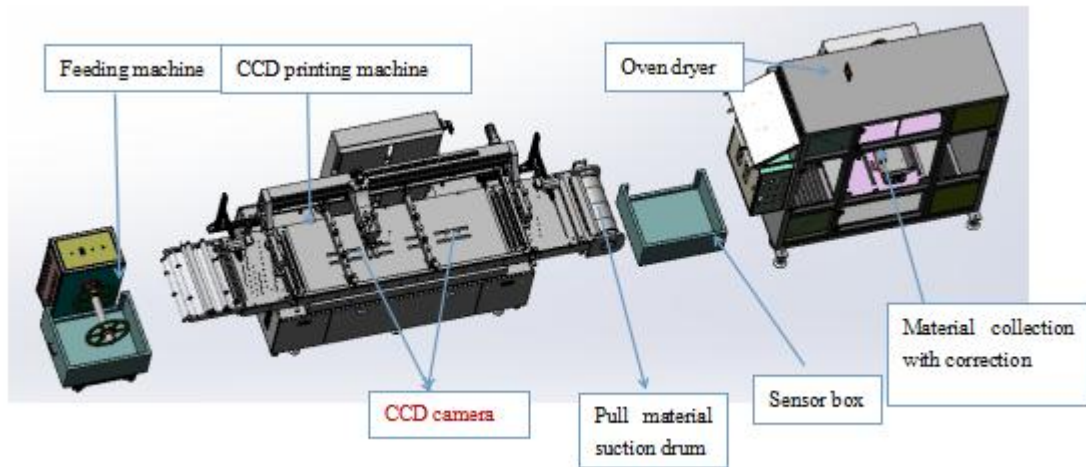


## Roll to Roll CCD Alignment Screen Printing Machine

### Introduction



### 1. Application Scope

This machine is widely used in FPC,PET, PVC, transfer paper (film), floor heating film, geothermal film, electro thermal film, color paper, film, name plate, flexible circuit board, mobile phone keys, 3 m glue, glue, membrane switch, trademark laser, scratch CARDS, self-adhesive stickers, paper, ribbon, aluminum foil and copper foil this roll material silk screen printing.

### 2. Features and performance.

#### A: Main machine feature---screen printing machine

1. The horizontal sliding seat is processed by a whole aluminum formulation, and it runs lightly and without jitter.
2. The screen clamping frame adopts pneumatic automatic clamping design, which is easy to operate.



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3. The printing adopts Panasonic servo motor, matched with linear guide rail, fast and stable, precise positioning.
4. Man-machine interface control + button switch, can set a variety of functions and parameters, easy to operate.
5. Safety pressure plate, photoelectric switch, emergency stop button, thorough safety protection.
6. CCD automatic positioning and printing, the field of view of CCD can be automatically adjusted according to the size of the material.
7. CCD automatically calculates the spatial position of the material and the screen according to the Mark point on the material, and instructs the motor to control the adjustment platform X, Y,  $\theta$  to rotate and automatically position and print
8. The printing adopts cleaning roller to remove dust.
9. Coil material running direction: the direction of the material running from right to left if the customer has no special requirements (also can be customized according to customer requirements).
10. Can be customized according to customer requirements to meet different requirements.

#### **B: The Feeder features:**

- (1) photoelectric control feeding, avoid the surface damage of the material.
- (2) feeding speed, time, can adjust at will.
- (3) the feeding starting speed, can adjust at will, start frequency starting from 0 up to run slowly, avoid the start too fast, cause the material surface scratches.
- (4) equipped with an automatic protective device.

#### **C: The dryer features:**

- (1) Circulating hot air drying, temperature adjustable, automatic winding.
- (2) The oven cover an small area, 32-60 meters length, which can realize low temperature drying, ensure printed material no shrinkage deformation, multicolor printing.

#### **3 Technical parameter:**

Name	Model	VT5070PR-1
<b>CCD alignment printing machine</b>	Working area(mm) place	1000x660mm
	Max inputting width	450mm
	Max printing area	600x450mm
	Min printing area	400x500mm
	Machine weight	2000kg



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	printing thickness	0.075-1mm	
	CCD alignment precision	±0.02mm	
	Printing precision	±0.05mm	
	Air pressure	4 - 6 kg/PSI	
	Air consumption	2.6L/cycle	
	Voltage	380V-50HZ	
	Power	5KW	
<b>CCD alignment printing machine</b>	Max size of screen frame	1100x800mm	
	Min size of screen frame	300x200mm	
	Mix print skip distance(mm)	2	
	Machine size	L3300mmxW1600mmxH2200mm	
	Working pressure	5-8kg/cm2	
	One time printing speed(printing number/hour)	1000-1200	
	Second time printing speed(printing number/hour)	800-1000	
	Scraper stroke	900mm	
	CCD center space	330mm	
<b>Receiving oven</b>	temperature ( °C )	0-190	<b>Laminating device can be add in Oven</b>
	working voltage ( V )	380	
	max power ( KW )	24	
	Max size ( mm )	500	
	size ( mm )	L2400*W1200*H2100	
	feeding goods max size ( mm )	500	
<b>Feeding</b>	Feeder machine peak voltage(V)	220	<b>According to your</b>



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Feeder machine MAX POWER(KW)	0.3	<b>requirement</b>
Feeder machine size ( mm )	800*1000*1100	

## Main configuration:

Name	Brand	Origin
Linear guide line	Shangyin	Taiwan
Top and bottom photoelectric of screen frame	Omron	Japan
Servo motor	Panasonic	Japan
Air cylinder	SHAKO	Taiwan
Photoelectric	Omron	Japan
CCD system	Vility	Vility
Bearing	NSK	Japan
electromagnetic	SHAKO	Taiwan

## Machine process :

Raw material → Automatic feeding machine (anti-dusting, removing film, electrostatic eliminating) → Automatic printing ( automatic punching, printing, QC, automatic feeding ) → Automatic oven (be self-polishing , protective film, attach tape, release paper ) → Automatic receiving → Automatic punching machine( cut) → End product.

## Introduction to the user interface

1. Main interface: The main interface of the machine is clear, simple and powerful. The main interface of the machine contains all the functions required by the customer, and the customer can start the operation with one key in the main interface. Easy to use and simple to operate, you can use it skillfully with simple training



CCD position adjustment: CCD position adjustment can automatically adjust the field of view of the CCD according to the position of the Mark point on the customer material. The adjustment range of the CCD: 330mm (horizontal  $\pm 100\text{mm}$ , vertical  $\pm 25\text{mm}$ ), the Mark point on the customer material only needs to be here Within range. Then you can automatically adjust the position of the MARK point:



2. Alignment setting: The alignment setting includes the core parameter settings of the internal parameters of the machine. In the alignment setting, control options are given to adapt to various printing phenomena such as material shrinkage and screen expansion. Customers can choose the printing accuracy according to the product requirements , The software gives 6 kinds of printing accuracy for selection: including X error equalization, Y error equalization, +X direction as reference, -X direction as reference, +Y direction as reference, -Y direction as reference:



3. Alignment compensation: Alignment compensation is used to detect poor printing during the automatic printing process. When the image or text of the material expands or the material shrinks during the printing process, the employee can adjust the alignment compensation as required to ensure the printing accuracy of the material. Alignment compensation provides 6 automatic adjustment directions including +X, -X, +Y, -Y, clockwise and counterclockwise rotation.



4. Other functions: The main interface of the software includes the total printing quantity and the alignment time of a single piece. The customer can set the automatic alarm for the printing quantity in the main interface, and can also see all the printing steps of the printing process at the bottom of the main interface. The software displays PASS every time the printing is successful.



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### **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; Where certificate can you pass?

A:CE and Patents.

Q: What is your company's production capacity?

A:30 Set/ 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.