



# **Legend – Digital mass production solution**

**--Jatotek Saturn series Legend Inkjet**

Shenzhen Jinxin Technology Co., Ltd.

# Shenzhen Jinxin Technology Co., Ltd.

**Jatotek company info**

**Saturn core technology**

**Saturn advantages**

**Saturn running cost**

**Saturn series specification**

## Jatotek company info

Jatotek established in Shenzhen China, is a high technology company with many experience in PCB image transfer. All in one combination development, manufacturing, distributing, service.

Core company team members have more than 10 years experience in PCB industry, with certain patents.

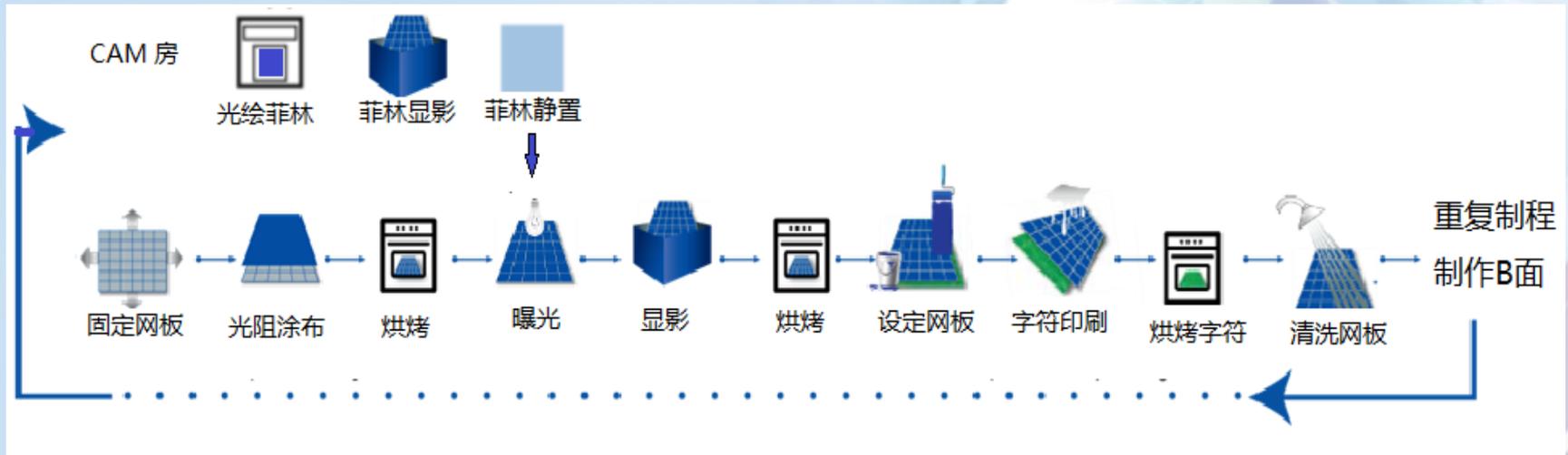
Jatotek's Inkjet already is the fastest Legend Inkjet in the world, and Jatotek continue developing to offer best production, service and solution to our customers.

# **Saturn series Characteristic: Efficiency、 Accuracy、 Stabilization**



# Conventional silk screen process vs. Inkjet process

## ❖ Conventional silk screen



## ❖ Digital Inkjet process:



# **Production advantages**

**1. Multi print head**

**2. High speed individual CCD**

**3. Table rotate and pin**

**4. Flexible for automatic solution**

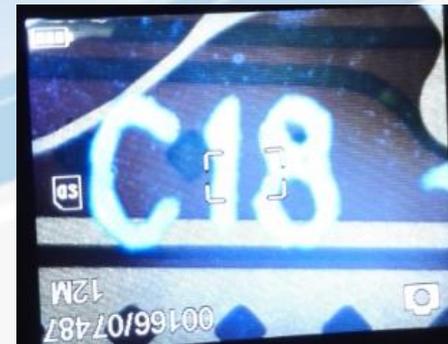
# 1. Multi print head high speed - -- jetting

- ◎ Nozzle combination 1024 x 8 print heads, leading the industry (can select 2, 3, 4, 6, 8 print heads)



- ◎ Proprietary intellectual property control system
- ◎ Proper algorithm ensure text quality

Sample: Fine test, filled area, edge of line (50x )

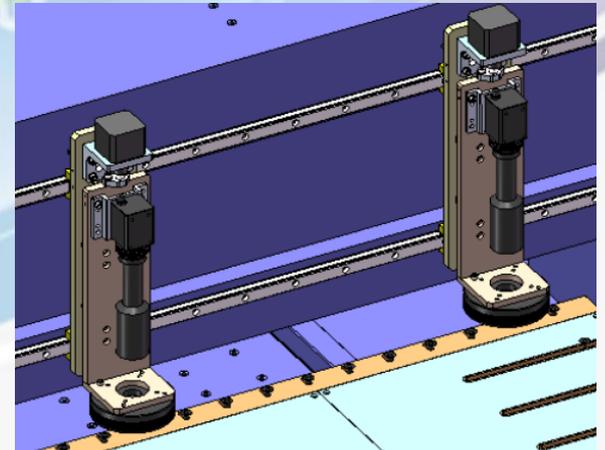


# 1.1 Multi print head high speed – long print head life time

- ⦿ Newest model print head, stable than former model
- ⦿ Intelligent print head management, single nozzle control
- ⦿ Mature ink recycle system, special design to protect print head
- ⦿ Flatten jig system, to avoid curve panel damage print head

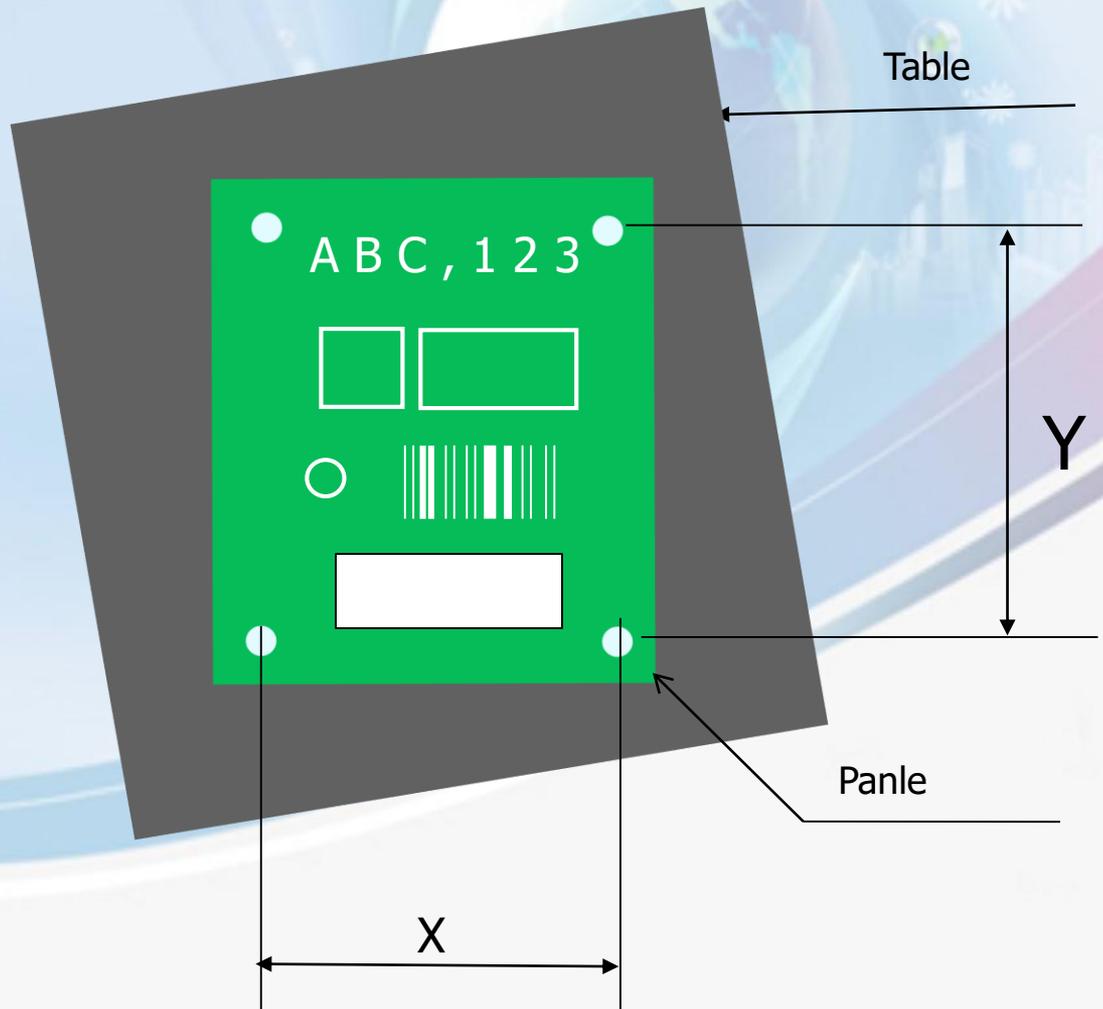
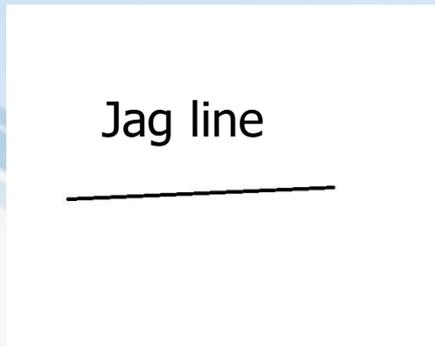
## 2. High speed individual registration system

- ◎ Patented CCD registration
  - ✓ Dual CCD fly registration (average 4 seconds)
  - ✓ Independent motion system from jetting system
- ◎ Auto calculate panel scaling
- ◎ Target ID recognize and record



# 3. Table rotation

- Table rotation, to guarantee image quality, avoid image distortion and jag line

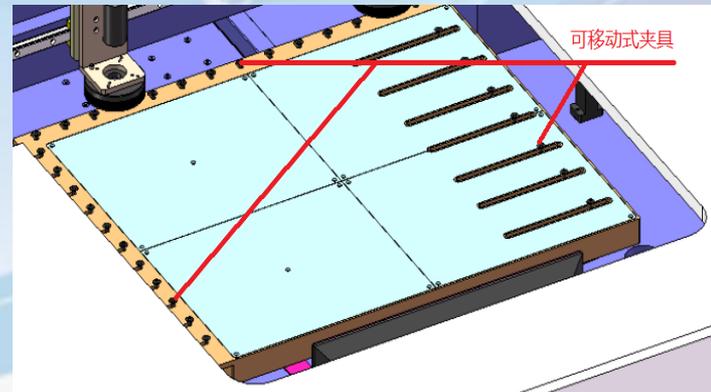


## 3.1 Panel flatten jig

3D flatten system:

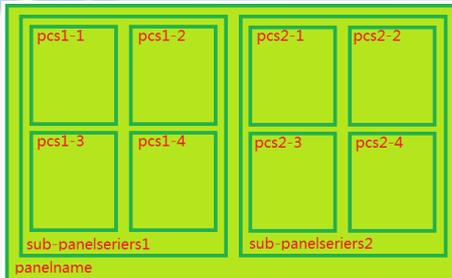
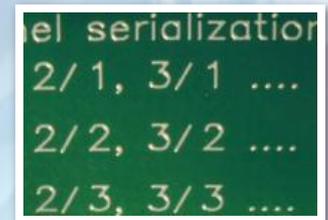
1. The only solution in the industry
2. Micro hole ceramic table to maximum

vacuum



# 4. Adaptable – digital retrospect system

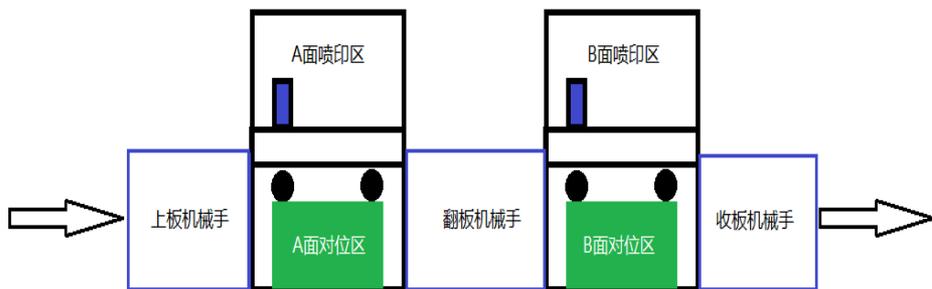
- 45 digit 2D code (5 x5 mm) under mass production mode, quality and efficiency perfect combination
- Proprietary intellectual software, Offline RIP workstation, fastest load job, improve Through put
- Retrospect production, dynamic date, Serious number, lot number, sub panel number,, bar code, 2D code



## 4.1 Adaptable – Flexible for automation

- ① Nozzle combination 1024 x 8 print heads, leading the industry (can select 2, 3, 4, 6, 8 print heads)
- ① Offline RIP workstation, 5-10 seconds loading job, adapt for sampling and mass production
- ① Flexible for automation (single machine mode, dual machine parallel connect, dual machine pipe line connect. Fulfill for mass production.

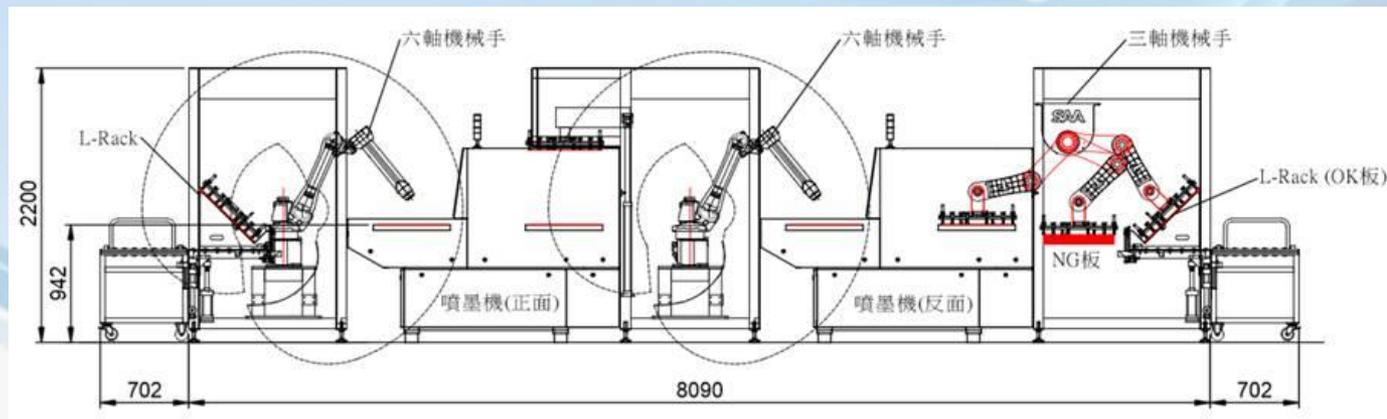
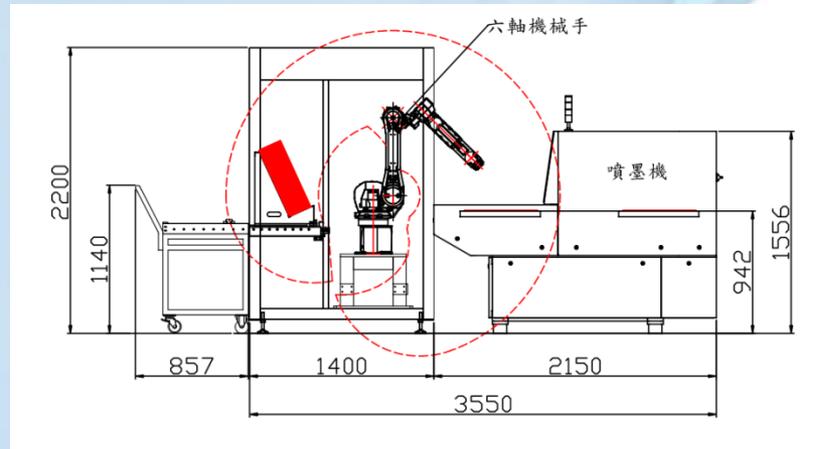
**Parallel connect**



**Pipe line connect**



## 4.2 Sample of two automation mode



# Production specification

Product specification		Creator - 400	Creator - 600	Creator - 800
Ink cure method		LED UV light		
Max image size		22' x26' (550mm x 660mm)		
Print head quantity		4 * 1024	6 * 1024	8*1024
Max resolution		1440dpi	1440dpi	2160dpi
Printing time (base on 22' x 24' panel size)*	Mass production	19s (1440 * 720 dpi 1 pass mode )	15s (1440 * 720 dpi 1 pass mode )	10s (1440 * 720 dpi 1 pass mode )
	High resolution	28s (1440 * 1080 dpi 2 pass mode )	N/A	N/A
	Ultra high resolution	38s (1440*1440 dpi 3 pass mode )	27S (1440 * 1440 dpi 2 pass mode )	20s (1440 * 1440 dpi 2 pass mode )
	SM mode	N/A	N/A	29s (1440*2160 dpi 3 pass mode )
Min line **		75um (3mil)		
Min. Text Height ***		0.5mm (20mil)		
Registration mode		4 targets ( Dual CCD, support 3 targets also, but same time as 4 targets )		
Registration Accuracy		±35um (1.4mil)		
Ink		Multiple inks from leading suppliers		
Data format		OBD++or Gerber274x		
Dimensions W x D x H		1490mm x 2100mm x 1560mm (58.7' x 82.7' x 61.4')		
Weight		1800Kg (3969lbs)		
Option function		A-A/A-B mode, support automation, front in front out/front in rear out		

# Efficiency、 Accuracy、 Stabilization

Green production, Digitalization,  
Intelligence, Automation

