

# UV Printing Solutions

## Provide you with professional



## Inkjet printer application cases



One-stop assembly line paging inkjet application



UV inkjet printer carton side spray application



Fully automatic lunch box automatic inkjet loading integrated machine



Paged carton color UV digital printing machine



Roll-to-roll variable data inkjet printing integrated machine



Paged paper bag and paper cup colour digital printing machine

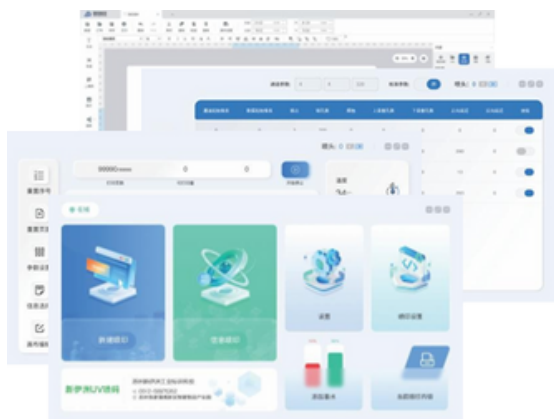


## Control System

Rich software and hardware interfaces: encoder, sensor, curing lamp, USB, network port, variable data high-speed printing system (Android/Windows optional)

Support multi-head splicing

- Industrial-grade modular ink path, continuous negative pressure ink supply is stable and reliable
- Ultra-high-speed printing: up to 300m/min (at low resolution)
- Imported environmentally friendly UV ink, in line with VOC standards, acid, alkali, ketone and alcohol wiping resistance
- Precise negative pressure control: Accuracy up to 0.01



## Easy-to-use software interface

- 13.3-inch/15.6-inch touch screen, with industrial-grade Android system and Windows operating system, rich in functions and more stable
- Support hundreds of fonts, various 1D barcodes, 2D barcodes, support import jpg, bmp, png, TIF pictures, PDF documents, excel variable data document printing



## PIJ Printhead

- Industrial-grade PIJ printhead: imported from Japan, life of 30 billion times of printing
- High resolution: physical resolution up to 600DPI, printing direction resolution up to 3000DPI
- Large size: unlimited length, single head height up to 108mm



## Printing distance up to 3cm

- Innovative software algorithm
- High-quality printhead
- Precise ink path control
- Printhead internal circulation



## DY A Series / DY A300 / DY A400 / DY A500 / DY A700

### High-Definition Inkjet UV Printer



### Performance Parameters

Model	DY A700	DY A300	DY A400	DY A500
System	DY variable data high-speed printing system (Android/Windows optional)			
Screen	13.3-inch touch screen/15.6-inch touch screen			
Printhead type	Seiko 510/Seiko 1020	Toshiba CE4	Ricoh G4	Ricoh G5
Printing width	Single head: 71.8mm	Single head: 53.7mm	Single head: 32.4mm	Single head: 54mm
Physical resolution	180DPI/360DPI	300DPI		600DPI
Printing direction resolution	100DPI to 360DPI	300, 600, 900, 1200DPI	100DPI to 300DPI	
Ink dot size	35PL/50PL, 12PL/35PL	5PL	7PL	
Ink dot type	1 dot	1 to 7 dots	1 to 3 dots	
Speed	Up to 100 m/min	Up to 66 m/min	Up to 165 m/min	Up to 330 m/min
Printing direction	Upward spray, downward spray, side spray	Downward spray, side spray	Upward spray, downward spray, side spray	
Ink supply system	Negative pressure			
Temperature/humidity	0℃-45℃ <85%RH, no frost			

# DY A Series / DY A800 / DY A900

## UV High-Definition Inkjet Printer



### Printing distance up to 3cm

#### Patented internal circulation technology

- The high-flow internal circulation technology that flows directly through all nozzle channels has a great inherent advantage over other printhead ink chamber circulations.

#### Application value

- **Stability:** The internal circulation directly takes away the bubbles and impurities in the printing chamber to ensure the stability of continuous printing
- **Moisture retention:** greatly extends the standby time, start the machine and spray immediately, reduce the maintenance and cleaning frequency
- **Printhead life is greatly extended:** The internal circulation self-repair function greatly reduces the printhead oblique spraying and plugging holes, extending the printhead life
- **White ink adaptability:** The internal circulation prevents the precipitation of large-particle pigment ink, and extends the standby time from 20 to 30 minutes of ordinary models to half a month or even longer



### Advantages of printheads

- high ink droplet speed + high drop point accuracy

#### Patented internal circulation technology

- The ink droplet speed of the jet reaches over 10m/s
- Reduce the difference in the landing point of different dot types especially the landing point accuracy of small ink droplets 1
- High jet force is suitable for high drop and high gap printing

#### Jet angle error

- Jet angle: within 1.3mrad, which is equivalent to the ejected ink droplets can fall on the 10cm bull's eye 50 meters away. The small jet error greatly guarantees the landing point accuracy of 3-4pl ink droplets

#### Application value

- Higher printing distance can reach 25mm Expanded from 1 to 3mm of ordinary printheads to 1 to 25mm to avoid scratching the printhead
- Single head larger printing width
- A800: Single head can print 53.95mm height content
- A900: Single head can print 108mm height content
- More accurate landing point, can print smaller fonts



### Nozzle advantage

- ultra high-resolution finishing technology

#### Single column 300dpi Nozzle processing technology

- A800 model has a single row of 300dpi nozzles for industrial printheads, while the 600dpi printhead is composed of only two rows of nozzles

#### Application value

- Further improve the printing quality, reduce or avoid the appearance of streaks, ghosting, or jagged edges in the print Can be used in production lines or scenes where objects are shaking and unstable





## DY A Series / DY A800 / DY A900

### UV High-Definition Inkjet Printer

#### Performance Parameters

Model	DY A800	DY A900
Physical resolution	600DPI	360DPI
Printing height	53.95mm	108mm
Ink dot size	3.5PL/6PL	13 – 400PL
Ink dot type	1 to 7 dots	1 to 3 dots
Printing distance	1 to 25mm	1 to 30mm
Number of nozzle rows	2	
Resolution of each nozzle row	300DPI	180DPI
Printhead internal circulation	Support	
Ink circuit circulation	Support	
Nozzle standby time	15 days	
Speed	Up to 108m/min	Up to 300m/min
Color	Support dual-color	Single color
Nozzle reverse circulation cleaning	Support	
Pressure control	Negative pressure + internal circulation	
Printhead type	Toshiba CF3	Seiki 1536
Communication protocol	TCP, HTTP, modelbus, barcode reader scanner (network port)	
Printing system	Variable data high-speed printing system (Android/windows optional)	
Screen size	13.3-inch touch screen / 15.6-inch touch screen	
Ink type	UV ink, oil-based ink	UV ink, oil-based ink, water-based ink
Printhead lifting mode	Screw fine adjustment (optional electric lifting, pneumatic lifting)	
Complete machine size	Length 45cm, Width 36cm, Height 85cm	
Working temperature	0°C to 45°C	
Nozzle self-repair	Support	
Relative humidity	<80RH, no frost	

# UV High-Definition Inkjet Printer

## Printing Effect

