

APPLICATIONS

- Food
- Cosmetic
- Pharmaceutical & Chemical
- Electronic Products



SPECIFICATIONS

Print System

- DOD piezo electric grayscale print head;
- 10 print heads; automatic voltage and temperature control
- Multiple UV lamp control

Color Modes

- Up to 10 ink channels
- W + CMYKcLm + V; W + CMYKcLmOrGr;
- W + CMYKOrGr + V; CMYKcLmOrGr + V
- Primer is available if required.

Media Type

- Slim craft or coated paper tubes

- Flexible or rigid plastic tubes
- Rigid metal tubes; Flexible aluminum tubes

Ink System

- UV curable ink, 1 L main ink tank
- Automatic ink supply system
- Active negative pressure system

Formats

- Popular desktop file formats, including JPEG, TIFF, PDF, EPS and DCS

RIP and User Interface

- ColorPRINT Bottle RIP software

- Color LCD Display Panel
- Printer Control Software (PCS)

Connectivity

- Gigabit Ethernet interface

Operational Environment

- Temperature: 16- 28°C (61- 82°F)
- Humidity: 40 - 70% (Recommended)
- Altitude: up to 1000 m (3281 ft)
- Electrical:
single phase 220 V ± 10 (50/ 60 Hz, AC)
Printer Control System: 3 A, 660 W
UV Control System: 3 A, 660 W

Printer Model	3sixty Tube
Tube Handling	2x2 operation stations; Automatic loading & unloading
Tube Size	Length: 0 - 220 mm (0" - 8.66"); Diameter: 18 - 50 mm (0.71" - 1.97")
Rotary Degree of Tube	360°
Printable Size	Feeding direction (R-axis): entire surface of the tubes Printing length (Y-axis): within 220 mm (8.66")
Printer Dimensions (W x D x H)	2072 mm x 1730 mm x 1917 mm (81.57" x 68.11" x 75.5")

Tube Diameter	Image Size	Resolution	Color Mode	Productivity* unit: tubes/hr.		
				Production Mode	Standard Mode	Quality Mode
35 mm (1.38")	110 mm x 110 mm (4.33" x 4.33")	900 x 600 DPI	CMYK	900	758	626
			W + CMYK	800	655	554
			W + CMYK + V	465	351	306
		900 x 750 DPI	CMYK	800	655	480
			W + CMYK	720	554	424
			W + CMYK + V	424	300	240
		900 x 900 DPI	CMYK	720	576	450
			W + CMYK	576	480	400
			W + CMYK + V	360	262	206

* Productivity will vary depending on print resolution, color modes, curing time, image size, etc.



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3sixty

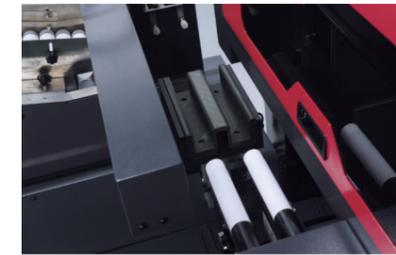
3sixty Tube UV INKJET PRINTER

360° Seamless Tube Printing



As a revolutionized industrial UV-LED inkjet printer, the **3sixty Tube** is specially designed for high-speed 360° seamless direct printing onto tubes. The 3sixty Tube is widely used in the food, cosmetic, pharmaceutical and chemical, electronic products and other industries.

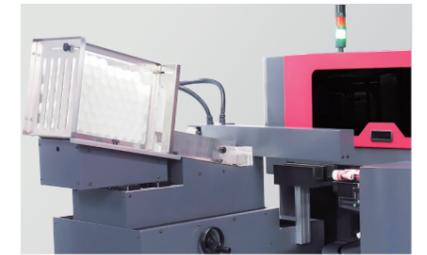
Throughout the traditional printing market, screen printing and label printing are the two main technologies for tube packaging. As an ideal alternative to the above technologies, the 3sixty Tube achieves cost-effective medium- & short-run tube printing with efficient workflows and fast delivery time. The 3sixty Tube is the best choice for prototyping, customized packaging and promotional items.



The **fixture set** supports different size fixtures for tubes with different lengths and diameters. The replacement of the fixture is simple and convenient.



The structure of **2 x 2 operation stations** achieves the loading, printing, curing and unloading of two tubes in groups alternatively.



The **automatic loading and unloading system** greatly improves efficiency and saves manpower.



* The photo does not include the automatic loading & unloading system.



Print Directly to **Squeeze Golden Tubes**

The **automatic print head protection system** monitors whether the print heads will be scratched or exposed to UV light.

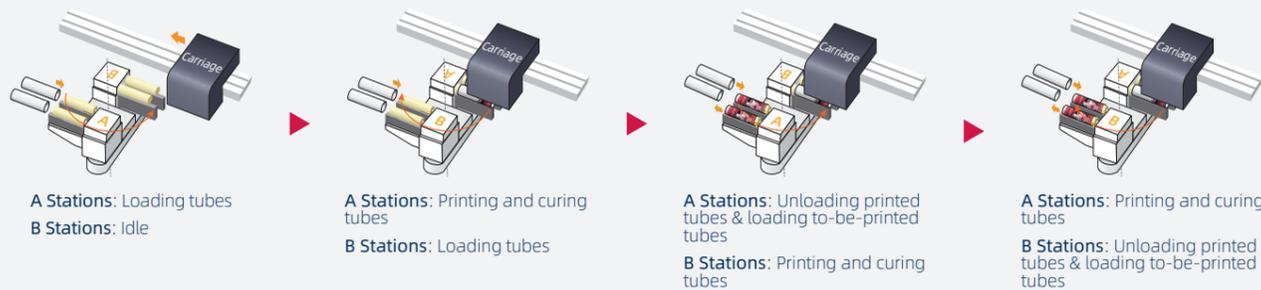
The **print head maintenance module** allows automatic purging, wiping and capping.

Automatic ink supply system monitors and controls ink levels of the main and sub ink tanks with liquid level sensors.



Automatic Loading, Printing, Curing & Unloading on 2 X 2 Operation Stations

The 3sixty Tube achieves high-efficiency production featuring dual-tube simultaneous printing and 2x2 operation stations. 2x2 operation stations rotate in and out alternately for continuous printing, optimizing production workflows, and resulting in the most effective industrial inkjet printing.



Innovative rotary printing technology

A variety of proven and creative printing methods and algorithms are integrated into the 3sixty Tube to achieve high-quality output on the tube.

- Thanks to the **Rotational Print Pass Method (RPPM)** and **Special Print Head Arrangement Method** for tube printing, the 3sixty Tube is endowed with amazing print productivity and quality.
- **Ink Droplet Conversion Algorithm** realizes consistent resolutions and stable visual effects on different tubes, ideal for printing tubes even with small sizes.
- Supports Colorful **Variable Data Printing**, including logos, images, texts, numbers, codes, etc.
- Excellent droplet control technology ensures that the edges of text, lines, barcodes and 2D codes are sharp and clear at a resolution of 900 x 750 DPI.



The color management system

provides accurate colors to meet stringent packaging printing requirements for various types of tubes.

- **Orange and green** inks reproduce bright and vibrant yellows, reds, purples, blues, while maintaining smooth gradients.
- **Light cyan and light magenta** inks well present smooth gradations and light tones without graininess.
- **Varnish printing** offers amazing tactile and visual effects to grasp viewers' attention, while also providing better adhesion.
- High-density **white ink printing** delivers exceptional image quality on transparent, colored, silver and golden tubes with less ink consumption.
- The feature of **spot color** meets stringent brand requirements while printing corporate logos and recognizing colors.



Metallic Orange & Green on Silver Tube



White Ink Overprinting on Blue Tube



Soft Skin Color

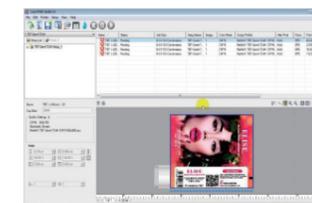


Smooth Gradients

PROFESSIONAL SOFTWARE FOR TUBE PRINTING

ColorPRINT Bottle RIP Software

- Intuitive main interface with 2D/ 3D preview
- Object template to define print locations
- ICC color management
- Automatic white ink background choke
- Basic parameters can be set in one view
- Variable Data Printing



Printer Control Software (PCS)

- Displays real-time status information of the printer and job, and sends job control commands
- Visually displays printing and curing status of jobs at the 2 x 2 stations in real time
- White Ink Circulation Control
- Check Nozzle Circular; Horizontal Calibration
- Multiple UV Lamp Control

