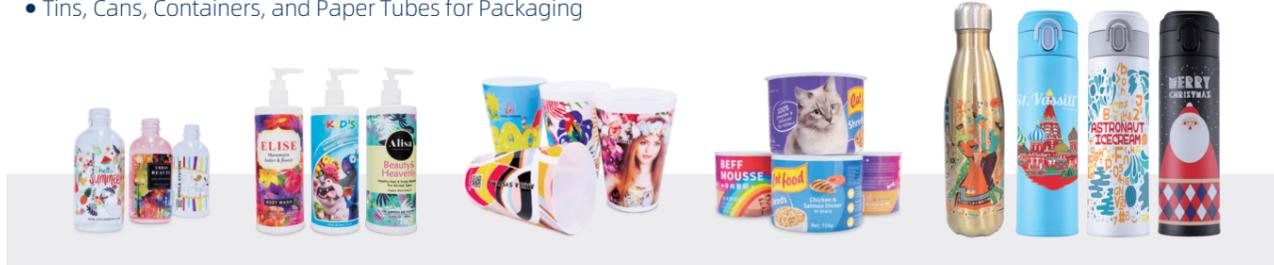


APPLICATIONS

- Bottles, Cups, Tumblers, Glassware
- Tins, Cans, Containers, and Paper Tubes for Packaging



SPECIFICATIONS

Print System

- DOD piezo electric grayscale print heads, automatic voltage and temperature control
- UV-LED curing system with multiple UV lamp control
- Automatic Print Head Protection System
- Automatic Print Head Maintenance System for purging, wiping and capping

RIP and User Interface

- ColorPRINT Bottle RIP software
- Color LCD Display Panel

- Printer Control Software (PCS)

Ink System

- UV curable C, M, Y, K, White, Varnish, and Primer inks
- 1 L main ink tank for each color
- Automatic ink supply system
- Active negative pressure system

Media Type

- White/ black/ colored tapered objects and cylinders
- Metal, paper, plastic, wood, glass, etc.

Connectivity

- Gigabit Ethernet interface

Formats

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

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); 15 A; 3300 W

Printer Model	3sixty DualSpin	
Stations	2x2 operation stations for loading, printing, curing and unloading	
Printed Object	Shape	Tapered or Cylindrical Objects
	Size	Length: 0 - 330 mm (0" - 13") Top diameter: 40 - 120 mm (1.57" - 4.72") Bottom diameter: 40 - 120 mm (1.57" - 4.72")
Rotary Degree of Object	360°	
Printable Size	Feeding direction (R-axis): entire surface of the objects Printing length (Y-axis): within 220 mm (8.7") (Standard); within 330 mm (13") (Option)	
Printer Dimensions (W x D x H)	1720 mm x 2315 mm x 1640 mm (67.7" x 91.1" x 64.6")	

Bottle Diameter	Image Size	Print Resolution	Color	Productivity* Unit: bottles/ hr.		
				Production Mode	Standard Mode	Quality Mode
73 mm (2.87")	229 mm x 170 mm (9.02" x 6.69")	600 x 900 dpi	CMYK	533	379	300
			W + CMYK	480	327	253
			W + CMYK + V	262	195	150

* Print Productivity includes loading, printing, curing and unloading time. It will vary depending on print resolution, color modes, image size, etc.,



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3sixty

3sixty DualSpin UV INKJET PRINTER

360° Seamless Tapered Object & Cylinder Printing



REVOLUTIONIZE TECHNOLOGIES

HIGH EFFICIENCY DIGITAL PRINTING

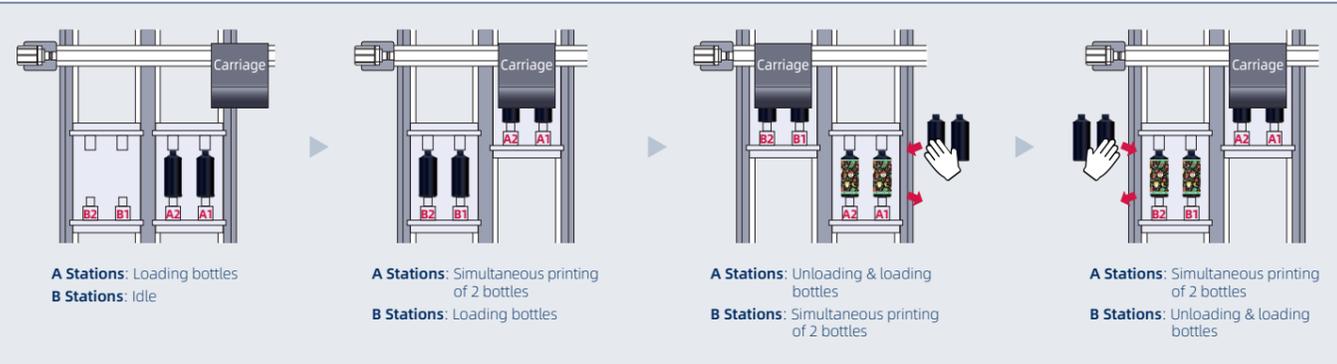
With comprehensive R&D on printing technologies, machinery, software, workflow optimization and ink chemistries, AMICA is proud to release 3sixty DualSpin revolutionized color UV-LED inkjet printer with 2 × 2 operation stations.

3sixty DualSpin is specially engineered for high-efficiency 360° seamless printing on tapered objects & cylinders, such as cups, bottles, tins, and cans.

Compared with traditional tapered object & cylinder printing, like pad printing, screen printing and label printing, 3sixty DualSpin has prominent advantages in being free from plates, fast warm-up, short turnaround time, as well as customized printing. Also superior to digital thermal transfer printers, 3sixty DualSpin owns more simplified workflow, easier operation and lower cost.

With Variable Droplet Size control technology and light color printing, 3sixty DualSpin is specialized in producing soft skin tones, smooth gradients and vivid images on tapered objects & cylinders, not being achieved with other printing technologies. 3sixty DualSpin is an ideal choice for tapered object & cylinder printing in short- & medium-run, customized & personalized production, and package proofing applications.

Production Workflow



2 × 2 Operation Stations Accomplish High-efficiency Production

3sixty DualSpin achieves high-efficiency production of short- & medium-run tapered object & cylinder decoration featuring twin-bottle simultaneous printing and 2 × 2 operation stations for loading, printing, curing and unloading.

- 2 × 2 operation stations move in and out alternately for continuous printing of tapered objects & cylinders, optimizing production workflows and accomplishing effective industrial inkjet printing.
- For tapered cup printing, 3sixty DualSpin adopts unique calibration technology to ensure that all the 4 cups at the stations are horizontal with the same angle, so as to obtain uniform printing quality and effect.
- Advanced control technology enables stable and consistent printing quality for jobs at the 2 × 2 stations even in a long time of production.



4 different files can be output simultaneously on 2 × 2 operation stations



Automatic Print Head Protection System monitors whether the print heads will be scratched or exposed to UV lights, effectively ensuring the safety of print heads.



Based on an all-in-one design concept, the small and compact **Print Head Maintenance Module** allows automatic purging, wiping and capping for convenient unattended operation.



Automatic Ink Supply System monitors and controls ink levels of the main or sub ink tanks with liquid level sensors. We offer a range of UV curable inks with bright colors, as well as advantages of excellent hardness, durability and scratch, chemical, and water resistance.



Fixture Extendability Offers More Creativity

3sixty DualSpin allows to print onto objects at the 2 × 2 stations with 40-120 mm in diameter and 0-330 mm in length.

You can configure fixtures connected to 2 × 2 angle adjusted connectors to meet specific demands, including cylindrical thermos bottles and tapered open cups, making the possibilities for inkjet printing endless.

Customized Printing Methods & Algorithms

Through relentless exploration and practice, we have developed 3sixty DualSpin integrated multiple proven and innovative technologies of great significance.

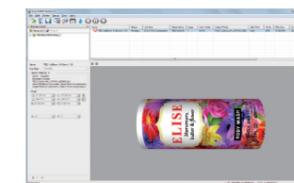
- Thanks to the **Rotational Print Pass Method (RPPM)** and **Special Print Head Arrangement Method**, 3sixty DualSpin is endowed with amazing print productivity and quality for the simultaneous printing of 2 tapered or cylindrical objects.
- **Ink Droplet Conversion Algorithm** realizes consistent resolutions and stable visual effects in different objects.

- **Ink Droplet Compensation Algorithm** for tapered object printing ensures even image density on different sections of the tapered object and avoiding image deformation.
- Combining special algorithms, 3sixty DualSpin thoroughly eliminates gaps or overlaps of images in **360° seamless printing**.
- 3sixty DualSpin supports **Colorful Variable Data Printing**, including logos, images, texts, numbers, codes, etc.

Professional Software for Tapered Object & Cylinder Printing

ColorPRINT Bottle RIP Software

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



Printer Control Software (PCS)

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

