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
- Multiple UV-LED curing control system
- Automatic print head maintenance system for purging, wiping and capping

Ink System
- UV curable inks
- 6-Channel Model: W+CMYK+V
  7-Channel Model: P+W+CMYK+V
  10-Channel Model: W+CMYKLcLmOrGr+V
  11-Channel Model: P+W+CMYKLcLmOrGr+V

- 1L main ink tank for each color
- Automatic ink supply system
- Active negative pressure system

Media Type
- White, black, colored, or clear materials
- Tapered or cylindrical objects
- Metal, paper, plastic, wood, glass, etc.

RIP and User Interface
- ColorPRINT Bottle RIP software
- Color LCD Display Panel
- Printer Control Software (PCS)

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	RotaSpin BD Pro	
Printed Object	Shape	Tapered or Cylindrical Objects
	Size	Length: 0 - 360 mm (0" - 14.17") Top diameter: 50 - 130 mm (1.97" - 5.12") Bottom diameter: 50 - 130 mm (1.97" - 5.12")
	Angle	-4.5° to 11°
Rotary Degree of Object		360°
Printable Size		Feeding direction (R-axis): entire surface of the objects Printing length (Y-axis): within 330 mm (12.99")
Printer Dimensions (W × D × H)		2351 mm × 1049 mm × 1886 mm (92.6" × 41.3" × 74.3")

Printing Productivity* of 6-Channel Model

Tube Diameter	Image Size	Resolution	Color Mode	Standard Mode		Quality Mode	
				Sec./ 2 pcs	Qty. / hr.	Sec./ 2 pcs	Qty. / hr.
73 mm (2.87")	229 mm × 170 mm (9.02" × 6.69")	600 x 900 DPI	CMYK	12	600	14	514
			W + CMYK	13	554	15	480
			W + CMYK + V	27	267	31	232
			P + W + CMYK +V	33	218	40	180
		600 x 1200 DPI	CMYK	13	554	16	450
			W + CMYK	14	514	18	400
			W + CMYK + V	28	257	36	200
			P + W + CMYK + V	37	195	46	157

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

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ROTASPIN BD PRO UV INKJET PRINTER
### 360° Seamless Tapered Object & Cylinder Printing

The **ROTASPIN BD Pro** is designed for 360 degree seamless printing onto cylinders or tapered objects, such as bottles, cups, tins, and cans. As an industrial direct-to-object UV-LED inkjet printer, the RotaSpin BD Pro with dual operation stations that can print and cure simultaneously improves production efficiency.

With the benefits of a streamlined workflow and easy operation, the RotaSpin BD Pro is ideal for a wide variety of applications including short- & medium- run printing, customized printing, and personalized printing.

Complete Digital Printing System

UV-LED
Inkjet Printer

NuviINK®
UV Ink

ColorPRINT
Bottle RIP Software

NuviLight®
UV Lamp Control System

CMS
(Color Management System)

VDP
(Variable Data Printing Module)

Printer Control Software

Tapered Object
50 - 130 mm
(1.97"- 5.12")

Cylindrical Object
50 - 130 mm
(1.97"- 5.12")

Object Length: 0 - 360 mm (0" - 14.17")
Printing Length: 0 - 330 mm (0" - 12.99")
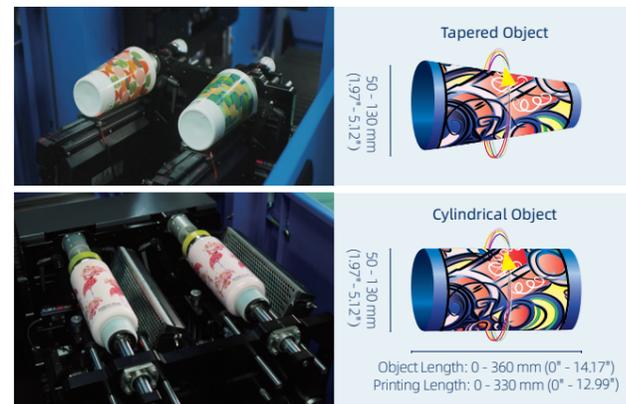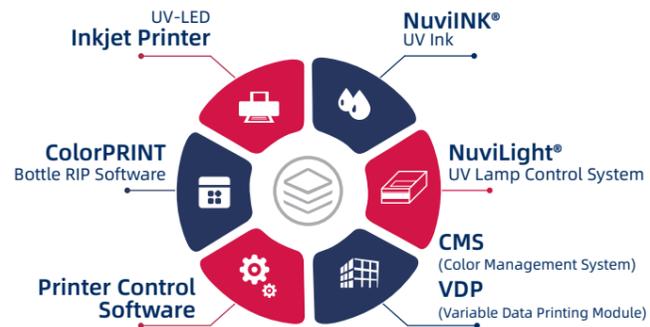
The RotaSpin BD Pro with dual stations accomplishes high-efficiency production without compromising the printing quality.

- Two objects can be loaded, printed, cured, and unloaded at the same time.
- Two different graphics or images can be printed on a pair of objects at the same time.
- Different custom fixtures can accommodate objects of different shapes and sizes.

The loading & unloading zone is separated from the printing zone, making safe and convenient operation.

The Ink Mist Collection Device optimizes the environment and guarantees a haze-free print image.

The touch screen monitor provides a more comfortable operating experience.

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

The 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 and sub ink tanks with liquid level sensors. (The above photo for 11-channel model)

Color Management

The color management system ensures that the RotaSpin BD Pro easily outputs accurate, vivid, and consistent colors in less time on tapered or cylindrical objects.

- **Orange and green inks** reproduce bright and vibrant yellows, reds, purples, blues, while maintaining smooth gradients. (Only available on 11-channel model)
- **Light cyan and light magenta inks** well present smooth gradations and light tones without graininess. (Only available on 11-channel model)
- **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 or black materials.
- The feature of **spot color** meets stringent brand requirements while printing corporate logos and recognizing colors.

White Ink Printing on Colored & Clear Plastic Bottles

Soft Skin Color

Perfect 360º Seamless Rotary Printing

Innovative rotary printing technology for tapered objects and cylinders. A variety of proven and creative printing methods and algorithms are integrated into the RotaSpin BD Pro to achieve high-quality output.

Continuous Graphic

Without Gaps or Overlaps

- Thanks to the **Rotational Print Pass Method (RPPM)** and **Special Print Head Arrangement Method**, the RotaSpin BD Pro is endowed with amazing print productivity and print quality for tapered objects and cylinders.
- **Ink Droplet Compensation Algorithm** for tapered object printing ensures even image density on different sections of the tapered object and avoiding image deformation.

Tapered Cups

Professional Software for Tapered Object & Cylinder 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
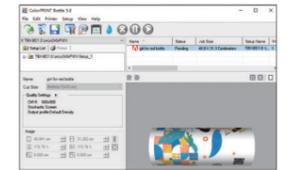
Printer Control Software (PCS)

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

- **Embossed printing** builds up raised layers of ink for overall or only appealing parts on tapered or cylindrical objects.

Embossed Printing on Glass Candle Holder

- **Double-sided printing** on transparent materials achieves accurate registration.

Double-Sided Glass Candle Holder

- **Ink Droplet Conversion Algorithm** ensures consistent visual density effects of the same image on objects of different sizes.

Stainless Steel Sport Bottles

9.8 Inches (250 mm)

12.2 Inches (310 mm)