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

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

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

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 220V±10% (50/ 60 Hz, AC); 3 A; 660 W

Printer Model		3sixty
Printed Object	Shape	Tapered Objects & Cylinders
	Size	Length: 0 - 270 mm (0" - 10.63") 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 (8.66")
Printer Dimensions (W × D × H)		1373 mm × 670 mm × 1654 mm (54.1" × 26.4" × 65.1")

Bottle Diameter	Image Size	Print Resolution	Color	Productivity Unit: bottles/ hr.	
				Production Mode	Quality Mode
70 mm (2.76")	60 mm × 219.8 mm (2.36" × 8.65")	600 × 900 dpi	CMYK	225	157
			W + CMYK	180	129
			W + CMYK + V	138	92
	100 mm × 219.8 mm (3.94" × 8.65")	600 × 900 dpi	CMYK	164	106
			W + CMYK	129	257
			W + CMYK + V	97	62

Amica Technology

E-mail: info@amicatechnology.eu

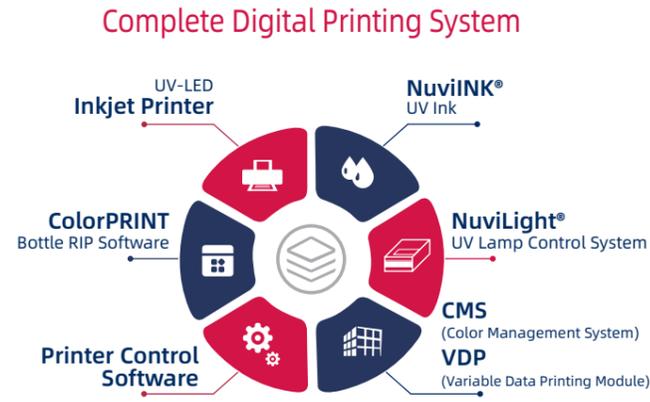www.amicatechnology.eu

3sixty UV INKJET PRINTER
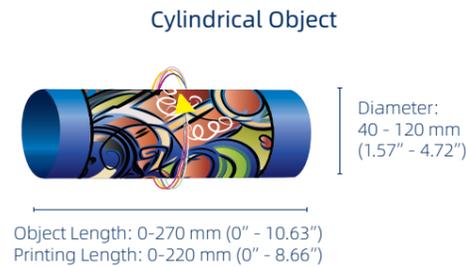## 360° Seamless Tapered Object & Cylinder Printing

Innovative Digital Production Method & Printing Technologies for Tapered Objects & Cylinders

The 3sixty UV-LED inkjet printer is specially engineered for direct printing on tapered objects and cylinders, such as cups, bottles, tins and cans, and supports a wide range of materials, including metal, glass, paper, wood and plastic.

Compared with traditional printing techniques, such as pad printing, screen printing, and label printing, 3sixty has prominent advantages in being free from plates, fast warm-up, as well as short turnaround time. 3sixty is an ideal choice for short-run printing, customized printing, and package proofing.

Complete Digital Printing System

UV-LED **Inkjet Printer**

NuviINK®
UV Ink

NuviLight®
UV Lamp Control System

CMS
(Color Management System)
VDP
(Variable Data Printing Module)

Printer Control Software

ColorPRINT
Bottle RIP Software

Fixture Connector with Adjustable Angles

Tapered Object

Diameter:
40 - 120 mm
(1.57" - 4.72")

Object Length: 0-270 mm (0" - 10.63")
Printing Length: 0-220 mm (0" - 8.66")

Cylindrical Object

Diameter:
40 - 120 mm
(1.57" - 4.72")

Object Length: 0-270 mm (0" - 10.63")
Printing Length: 0-220 mm (0" - 8.66")

With standard connector available, operators can install corresponding fixtures according to specific shapes, dimensions or structures of their printed objects to achieve accurate positioning and tightly fastening, ensuring stable high-speed rotation, quick loading, and quick unloading.

Equipped with the angle adjustment device, 3sixty will lead you to high quality final color prints, including trendy tapered open cups and neat cylindrical thermos bottles.

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 Print Head Protection System monitors whether the print heads will be scratched or exposed to UV lights, and immediately stops the movement of the carriage in case of the emergency situations, effectively ensuring the safety of print heads.
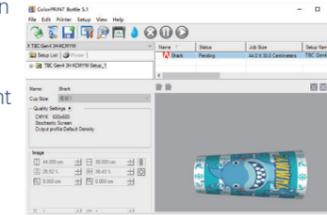
Positioning Sensors indicate the position of the print object and enable to quickly set the printing area, achieving efficient and precise printing.

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
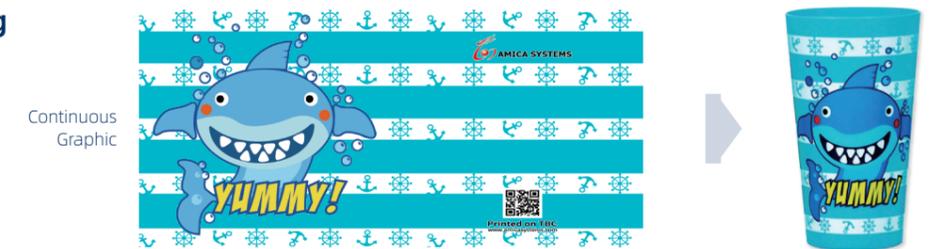· Variable data printing

Printer Control Software (PCS)

· Sends job control commands to print, abort, pause, resume and reset
· Displays real-time status information of the printer and job
· Z-axis height control
· Check nozzle circular; Horizontal calibration
· White ink circulation control
· Multiple UV lamp control

Perfect 360º Seamless Rotary Printing on Tapered Objects & Cylinders

Thanks to the **Rotational Print Pass Method (RPPM)** and **Special Print Head Arrangement Method**, 3sixty is endowed with amazing print productivity and print quality for tapered objects and cylinders. The **Ink Droplet Conversion Algorithm** realizes consistent resolutions and stable visual effects for bottle or cup sets in different sizes. 3sixty also uses the **Ink Droplet Compensation Algorithm** to avoid image deformation on different sections of the tapered object, and ensure excellent visual effect.

(A) **360° Seamless Printing**
without Gaps and Overlaps

Continuous Graphic

(B) **Double-Sided Printing**
on transparent materials

(D) **Embossed Printing**
on glass candle holder

(C) **High-Drop Printing**
on irregular or uneven surfaces

(E) **Packaging Application**
for short-run printing, customized printing, and proofing