

NC-Cylinder Elf-mini

This mini desktop UV printer dedicated to thermos cups is equipped with a 1200dpi high-precision print head. Combined with an intelligent operation interface, it integrates functions such as multi-mode printing. It can be used without debugging and supports one-click pattern import for personalized customization. Everything from text to high-definition patterns can be presented accurately, providing an efficient and flexible solution for small-batch thermos cup customization.

30 seconds per unit

Single-piece printing speed, second-level response for small-batch customization.

High-definition LCD touch screen

Every detail embodies a user-friendly design, delivering an efficient and convenient printing experience.

1200dpi

High-resolution benchmark-level configuration, with clear reproduction of micron-level details.

CMYK+W+V

White, color, and varnish are printed simultaneously, presenting the 3D embossed varnish effect, which enhances the texture and recognition of the finished products greatly.

8mm high-height printing

Multiple types of cups, kettles, and cylindrical/conical special-shaped parts, enabling flexible customized color printing.



Mini desktop · UV printer for thermos cups

Product features

High precision and bright colors
It adopts the Epson I3200-U1HD print head and 4-color + white + varnish, with a maximum printing resolution of 1200dpi, delivering bright colors and natural color transitions.

High-drop printing, fast, accurate and stable mass production of special-shaped parts
It supports 2-8mm high-drop printing, laser can measure shape and positioning intelligently, and has a maximum speed of 30 seconds per unit. It challenges the challenges of printing special-shaped parts easily.

Large-size printing creates more possibilities
It supports printing on workpieces with a length of 80-280mm and a diameter of 45-100mm, and is compatible with large-diameter cups, kettles, and cylindrical/conical special-shaped parts, enabling more flexible customized color printing.

Lightweight design, easy maintenance
It features a compact body that saves space, a high-definition LCD touch screen for responsive operation, and user-friendly design reflected in every detail, delivering an efficient and convenient printing experience.

Tilt printing is suitable for complex shapes
It supports 360-degree rotating printing, with flexibly adjustable tilt angle. It bridges height differences accurately and handles the printing of complex special-shaped parts easily.

Full-adaptation for efficient printing, with craftsmanship reflected in every detail
It is equipped with multi-specification jigs to be compatible with products of different diameters. The water-cooled flowing lamp enables instant drying after printing, and the ink mist removal device filters out impurities. The entire process ensures printing quality and efficiency.

Intelligent protection for long-lasting performance of the print head
Lifting ink station for precise nozzle capping and laser through-beam intelligent anti-collision device can protect the print head, which can also prevent clogging and collision damage effectively, and ensuring durability of the equipment.

NFC contactless induction for convenient activation of ink encryption
Short-range induction activates the ink encryption unit, decrypting anti-counterfeiting information to prevent tampering. Meanwhile, the hardware is bound to authorized ink to prevent abuse, ensuring system security and stable printing quality.

Diverse effects

Diverse colors and stable output
It adopts ICC color control technology, which is not limited by image colors and enables easy printing of multi-color, gradient and other effects. During the production process, it can achieve accurate color management.

Embossed craft for trendy art
It can achieve partial glossy effects and full-area glossy effects, featuring scratch-resistant and wear-resistant properties while enhancing the product's sense of layering.

360-degree seamless splicing effect
The software incorporates a seamless splicing algorithm. After setting the size, it achieves a seamless joint effect easily, featuring simple operation and stunning results.

The material has a wide range of applications and good adhesion
It supports a variety of materials, such as matte/smooth surface, stainless steel metal, plastic, ceramics, etc. Equipped with flowing UV lamp control technology and segmented temperature control, it ensures adhesion.

Applications

Thermos cup
Automotive cups, kids' cups, pocket cups, coffee cups, sports water bottles, straight cylindrical thermos cups, thermal food jars,

Wine industry
Ceramic wine bottles, metal wine bottles, painted wine bottles, straight

Packaging materials
Aluminum cans, tea cans, beer cans, spray bottles, etc.

Household items
Coffee bean cans, paper cott-on swab tubes, cylindrical pl-astic lids, pen holders, flower vases (for arranging flowers),

Green decoration
Ceramic flower pots, small ceramic vases, cylindrical glass bottles, etc.

Product parameters

Model	NC-Cylinder Elf-mini
Print head configuration	Epson I3200-U1HD*1
Spray scope of printhead	2-8mm
The number of nozzle	3200pcs
Distance between nozzles	1/300inch
Number of nozzle rows	8
Maximum ink color	8
Ejection volume (drop volume and ejection frequency)	2 levels of grayscale 3 levels of grayscale 4 levels of grayscale
Print length	80-280mm
print diameter range	45-100mm
print taper range	< 5°
Print method	White, color, and varnish are produced at the same time
Print mode	CMYK + W+V
Resolution	720*900dpi/720*1200dpi
Printer size (L*W*H)	900mm*657mm*617mm
N.W.	100KG
Packing size (L*W*H)	1025mm*780mm*775mm
G.W.	120KG
Tank	Built-in machine
Print software	RIIN
Print speed range	30s-3min/unit
Graphic format	Tiff / Jpg
Connection method	Gigabit Ethernet cable
Supply voltage	AC220V, 50HZ/60HZ
Rated power	8520W
Work environment	Temperature: 25°C-28°C Humidity: 35%-65%
Operation condition	Avoid dusty environment, avoid direct sunlight
Ink type	Environmentally-friendly UV curing ink
Anti-collision function	Intelligent anti-collision with laser radiation
Product detection	Standard Equipment
UV curing method	Water-cooled UV lamp

The computer configuration requirements are as follows:

- System: Windows 10/11 (64-bit) or above (with integrated graphics).
- CPU Processor: 12th generation Core i5 or Edition.
- Memory: 16G or more.
- Hard Drive: Solid - state drive of 500G or larger.
- Graphics Card: No specific requirement. If the customer has graphic - drawing needs, they can configure a graphics card on their own.
- Network Card: Gigabit Network Card, 1000M.
- Monitor: Resolution 1920×1080.

