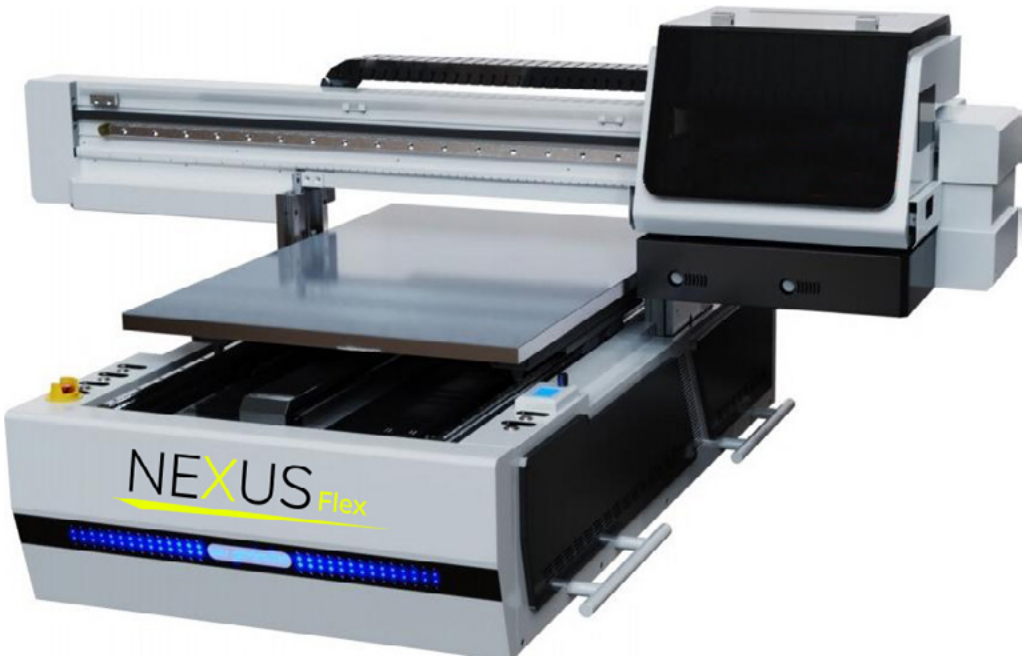
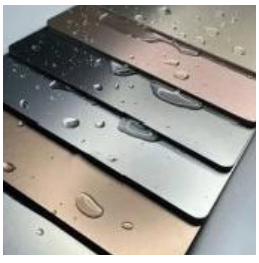
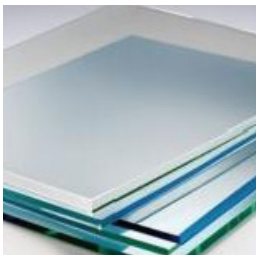
NEXUS Flex

Digital Flatbed UV printer







Versatile and precise digital printing for plastics, metals, glass & wood, ceramics, and other materials

LOPRITEC
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Not every print run is about speed—some require finesse and flexibility. That's where the Nexus Flex shines.

The Flex range offers unmatched flexibility and ultra-sharp detail, making it the ideal industrial solution for small batches, customized jobs, or applications with complex graphics.
Perfectly tuned to the needs of EU industrial manufacturing.

Various options available:

- **Automatic visual positioning system**
- **Expandable to cylindrical products**
- **UV DTF expansion (foil management)**
- **Hotfoil expansion**

What is multipass UV printing?

Multipass UV printing works by moving the print head across the surface in multiple passes—layer by layer—until the full image is built. This allows for higher resolution, greater control, and the ability to print on a wider range of product shapes and surfaces.

It's a perfect fit for:

- Plastics
- Metals
- Glass & ceramics
- Wood
- Cylindrical and conical products
- Digital-to-film (DTF) printing on irregular products

Why Choose Lopritec's Multipass UV Solutions?

- Pinpoint precision and flexibility for intricate graphics and detailed logos
- Excellent results on irregular or curved flat surfaces
- CMYK+White printing with optional varnish effects
- Ultrafast product turnaround
- Instant UV curing
- Minimal operator training required
- Perfect for prototyping and variable data printing
- Sustainable: no VOC (Volatile Organic Compounds) emissions and very little ink loss
- Safe: no heavy moving parts

Specifications

Print bed size	600mm x 900mm
Print head	Configured to purpose
Color output	CMYK+W+varnish
Maximum product height	200mm (customizable)
Print quality	720dpi / 1440dpi / 2880dpi / 5760dpi / 11520dpi
Lift	Print head lifting
Number of print heads	2~3 (optional)
Printing technology	Variable ink drop
Color output	White, color and (varnish)
Special effects	Relief / varnish

Workflow information

Anti clog system	Automatic mixing of ink cartridges + heating system (optional)
Safety system	Automatic detection with emergency stop
Bed material	Aluminium or tempered glass (optional)
Print modes	Unidirectional / bidirectional
Height adjustment	Manual
Image positioning	Automatic camera-based product position recognition (optional) Product mold-based positioning as standard
Ink types	UV curing inks / textile ink (optional)
Curing system	LED UV
Work environment	Ideal temperature between 15°C - 35°C Ideal humidity between 20 - 30%RH
Color output	White color and (varnish)
File formats	PDF, EPS, jpg, bmp, tff
Automatic mode	With product counter and configurable number of products
Dynamic mode	Automatic code, name and date mode

Technical information

Weight	190kg
Size	1370mm x 1700mm x 760mm
Power supply	220V, 50Hz

From Tradition to a Digital Future

For more than 35 years, Lopritec has been at the heart of industrial printing innovation. What started as a specialist in pad printing has steadily evolved into a trusted partner for manufacturers across Europe.

Over the decades, we expanded our expertise to hot stamping and thermal decal printing — building up a unique combination of technical know-how, equipment adaptation, and customer-focused service.

Today, Lopritec offers the full package: machines, consumables, and services for pad printing, hot stamping, thermal decal printing on glass and ceramics, and — most recently — digital UV printing.

The addition of digital UV technology to our range is not just a step forward, it's a strategic evolution. Traditional printing methods such as pad printing, hot stamping, and thermal decals face increasing challenges: high start-up costs, expensive reproductions, and rising labor costs.

Digital UV printing answers these challenges with flexible, cost-efficient, and highly automated solutions that fit the pace of modern manufacturing.

With the launch of the Nexus range, Lopritec bridges its long-standing tradition in industrial printing with the limitless possibilities of digital technology. It's the natural continuation of our mission: delivering robust, reliable, and future-ready printing solutions that empower manufacturers to stay ahead in a rapidly changing market.

Contact us

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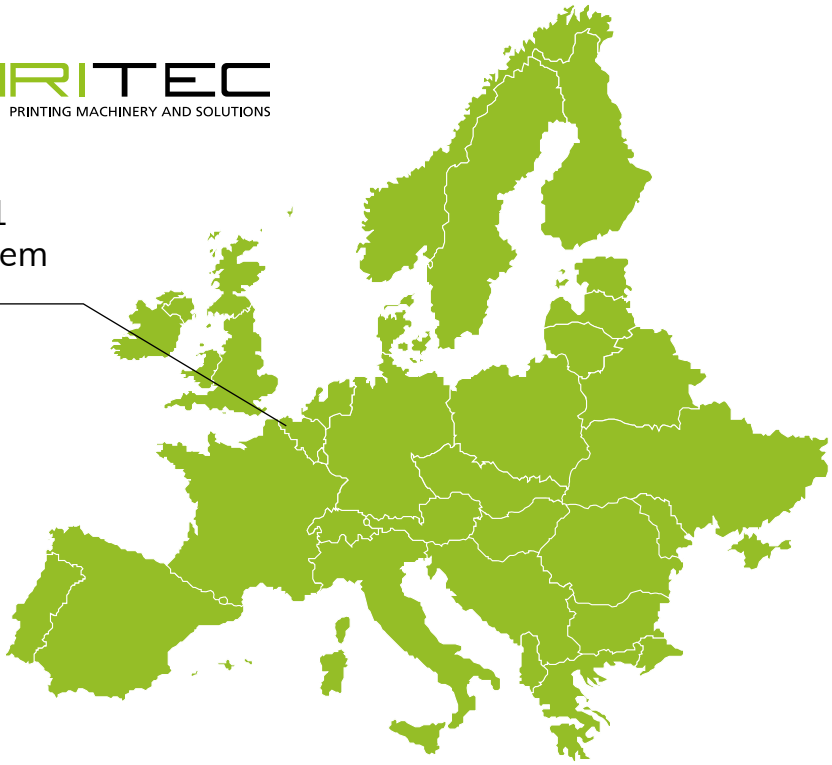
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