

NEXUS Orbit

Cylindrical Digital UV printer



360° industrial printing for bottles, tubes, jars, and more



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Cylindrical objects used to be a challenge in printing,
but not anymore.

With the Nexus Orbit, you can now print seamless, full-color designs around tubes, bottles, and other round products—without sacrificing speed or quality.

Advantages:

- **360° digital CMYKWW** printing with very stable output
- Extra nozzle configuration possible for **LCLMLYLK compatibility**
- **Wide application range**
- **Easy to use**
- **Siemens** motion control
- Automatic **diameter measurement**
- **Reduced risk of printhead clogging** with automatic cleaning and conditioning unit
- **Easy maintenance**



What is Cylindrical UV printing?

Cylindrical UV printing is a digital process designed for decorating round or tapered objects. Using specially adapted product rotation mechanisms, these systems apply full 360° artwork directly onto curved surfaces with instant UV curing for fast and durable results.

Our cylindrical solutions can print on:

- Plastics (PP, PET, ABS, etc.)
- Metals (aluminum, stainless steel, etc.)
- Glass & ceramics (bottles, jars, vials, etc.)
- And many other materials used in industrial production

Why Choose Lopritec's Cylindrical UV solutions?

- Seamless 360° coverage
- Excellent adhesion on difficult materials like glass or metal
- Instant UV curing
- Support for variable data, QR codes, and personalized prints
- Sustainable: no VOC (Volatile Organic Compound) emissions and very little ink loss
- Local support, European compliance, and customization from day one

Specifications

Product diameter	Cylindrical or conical, diameter 50mm - 160mm
Maximum print length	300mm
Maximum taper angle	5 degrees
Print head	Toshiba CF3
Print quality	600 dpi
Printing technology	4-5 PL ink drop
Printing method	Spiral or Progressive
Color output	Color (CMYK + LC LM LY LK), white (W), and varnish (V)
Motion control	Siemens PLC

Workflow information

Image formats	TIFF, JPG, PNG, EPS, PDF, AI, PSD
Working environment	20°C - 30°C, RH 30% - 60%

Technical information

Size	2100mm x 740mm x 1600mm
Power supply	220VAC, 50Hz, 1500W

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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