

ArcLED[®] hybrid

UV CURING SYSTEM

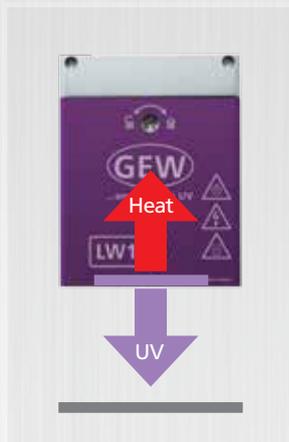
TWO UV Curing Technologies
ONE RHINO Power Supply



Why use **LED UV curing?**

Fast curing on thick, heavily pigmented inks

LEDs' high intensity UVA radiation penetrates thick ink layers for more consistent curing with improved adhesion, delivering faster speeds with inkjet, silkscreen, laminating and flexo base white.



Compatible with the widest range of substrates

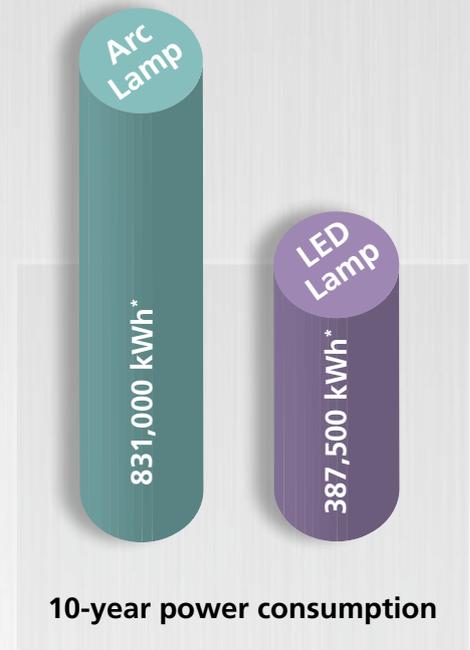
Nearly all heat generated by the LED array is conducted away to the rear heatsink, with almost pure UV radiated towards the substrate, so even unsupported films and delicate materials can be processed without heat damage or registration loss.

Increased machine uptime

LED arrays require less frequent maintenance as they last over 20,000 hours (between 5x and 7x longer than a typical GEW E2C UV arc lamp) and have no moving parts.

Safer, quieter operation

The absence of harmful mercury content and ozone creates a better working environment and do not require noisy extraction of exhaust air.



*The figures are based on a 13-inch 8-colour printing press running 2 shifts per day.

Reduced energy consumption

Higher electrical efficiency and purity of UV output allow significant opportunities for energy savings during production.

Instant on-off switching means no energy is consumed when the printing machine is idle between jobs.

Print **FASTER** for **LONGER**
with **LESS ENERGY**
and **NO DOWNTIME.**

GEW
...engineering UV



LED cassette



Arc lamp cassette

ArcLED® technology

Hybrid

ArcLED allows use of a conventional UV arc lamp or LED array on the same print unit. Both arc and LED cassettes are compatible with the same power supply and fit in the same housing for ease of change. The RHINO control enables any combination of curing technologies to be used on the press.

Future proof

Now you can switch between arc and LED curing at will to suit your process requirements and ink formulation. GEW arc or LED systems can both be upgraded in the field to the hybrid solution or supplied in this configuration from new.

The only tool needed to change a UV cassette



GEW UV LED curing

The patented LW1 water-cooled UV LED lamphead is the most effective on the market.

- Available as standard in widths up to 90 cm
- Uniformity of UV output and wavelength across the curing area
- Cassette-based LED array is easily accessed for cleaning or inspection and can quickly be swapped for an arc lamp cassette to suit specific applications
- Available in wavelengths 385, 395 and 405 nm in power levels up to 22 W/cm²





Minimal
harmonic
current
demand

Lowest operating costs

With intelligent power management the current draw from each mains phase is balanced and harmonic distortion is minimised, reducing the energy demand registered by your electricity meter.

Reducing harmonics in operation maximises existing mains capacity because energy is not lost as heat in cabling and transformers.

TWO UV Curing Technologies ONE RHINO Power Supply



LEDs and Arc Lamps
operating as one system

Power Supply benefits

LED arrays and conventional UV arc lamps are both compatible with the same RHINO power supply module.

Fail-safe operation

Military-grade electronic design protects the UV system from damage caused by incorrect voltage, short-to-ground, dropped phases, mains spikes and lightning strikes. In the event of a serious mains disruption, the system powers down in a safe mode.

Survives the harshest environments

RHINO is designed to run in harsh conditions at ambient temperatures of up to 40°C. The system is also unaffected by dust, ink mist and other atmospheric contaminants.

Minimal footprint RHINO Rack

A compact cabinet that houses up to 6 RHINO power supplies and provides perfect cooling, atmospheric protection and mains power distribution. Cabinets are stackable 2-high, enabling 12 power supplies to fit into a 115 cm x 65 cm floor area. Power supplies slide into the rack and connect quickly, enabling more lamps to be easily added to the system in future.



Embedded video tutorials



Energy usage monitor

Intuitive, common interface
for arc & LED UV lamps

Control benefits

Arc & LED common interface

Automatic detection of cassette type (arc lamp or LED) ensures the RHINO power supply instantly adapts and delivers the correct output power.

Energy performance measurement

The RHINO control automatically logs energy use and displays it on screen at the touch of a button, showing kWh consumption in operation, at idle and % production uptime.

Proactive downtime avoidance

Our Embedded Service Package regularly sends system performance data to GEW for analysis. A system health report is generated, highlighting any out-of-tolerance parameters requiring maintenance attention before a fault can develop.

Working at peak performance

The Event Log continually records system use and operating parameters. The Log can be checked to ensure the system is working at peak efficiency, avoiding energy waste and unplanned downtime.

Instant help

Multilingual instructions are easily accessible on every screen together with a library of tutorials and videos, troubleshooting and maintaining the system.

