

LW2 LED

UV Curing System

No.1
FOR
LED
UV

The most effective
LED UV curing technology
for offset printing



Printed and cured with GEW LED UV

gewuv.com

GEW
...engineering UV



GEW LW2 LED UV curing

GEW's patented LW2 lamphead is the most effective LED UV solution on the market.

- Highest UV intensity supports the fastest printing speeds
- Compact design fits almost all press types
- Direct UV irradiation path means no UV is lost in reflections
- Optimised focussing lenses maximise radiation achieving up to 10 times the intensity compared to glass window designs
- Continuous online monitoring of lamp/LED characteristics ensures the most reliable operation and fastest support of any manufacturer
- Uniform UV output and wavelength across the curing area
- Long-term consistent output over the full life cycle of the LEDs
- Movable between print units



Specification

Wavelengths	395nm*
UV irradiance	25W/cm ²
Electrical power	96W/cm
Width	To suit all machines
Operating temperature	5 to 40°C (41 to 104°F)
Operating humidity	Non-condensing
Durability	In excess of 20,000h
Cooling	Water

* Other wavelengths available on request

**Transform
your offset press**



Why use GEW LED UV?

Print on plastics

LED UV polymer inks allow successful printing on almost all stock types as they will adhere well to non-absorbent materials like PE, PET, PU, synthetic paper etc.

LED UV brings added value, increased product diversity and new product offerings with coated and uncoated papers, plastics and foil laminated sheets.

Sharper dots and vibrant colours

GEW's LEDs achieve sharper dots, more vibrant colours and a better quality finished product.

No more marking and scratching, no more sealer

LED UV inks and varnishes are 100% cured directly after the LED lamp. As inks are dried instantly, marking of sheets in the delivery or during the perfecting process is eliminated. The ink dries to a durable polymer which withstands solvents and abrasion throughout the lifetime of the product. As a result, machine varnish or sealer is no longer necessary.

Eliminate spray powder

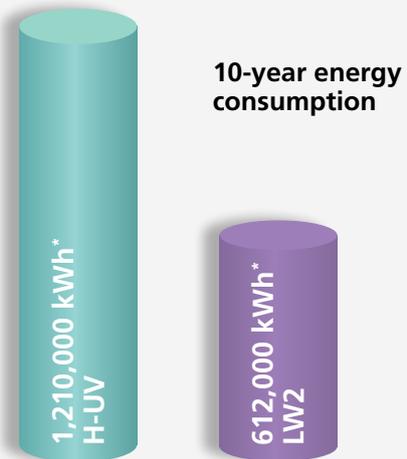
LED UV curing avoids the need for spray powder on the machine. This eliminates the widespread contamination and associated time-consuming cleaning and maintenance while creating a cleaner work environment.

Instant drying for faster job turnaround

Instant drying of inks enables immediate finishing and much faster despatch of jobs. Sheets can be folded, cut, bound and further processed right away, reducing work-in-progress and significantly shortening lead-times to customers.

"Instant drying means that we can follow on with any finishing process immediately after printing. Using LED UV ink technology has enabled us to print on plastics and other difficult substrates. It's one of those things... you wonder how you ever got along without it."

Charlie Anderson
Managing Director
C & D Print Media, England

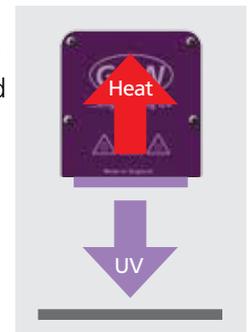


* Figures are based on 2 lamp, B1 perfecting press, 40% uptime, 2 shifts/day, 312 days/year.

No heat

Unlike H-UV or traditional mercury lamps, LEDs emit very little infrared heat towards the substrate.

This avoids common heat-related issues in printing such as high pile temperatures, curling of heat-sensitive stock materials and loss of moisture in paper: printed sheets are crisp and fresh as new.



The low heat profile of GEW LEDs means fire risk, costly shielding and preparation of print units is avoided.

More cost effective than H-UV

Instant on-off switching means that with LED no energy is consumed when the press is idle. The higher electrical efficiency of LEDs and the purity of the UV output allow typical energy savings in excess of 50% compared with an H-UV lamp system.

100% UV uptime

The printer never waits for the UV lamps because GEW's LEDs' instant on-off switching means no warm-up or cool-down cycles. Mechanical maintenance time is eliminated because no lamps, shutters or reflector mechanisms require servicing.



Control panel

Embedded service

RHINO Control is connected to the internet and encrypted system performance data is sent live to GEW 24/7. This ensures the fastest and most precise response to service issues available in the industry.

System performance reports

Regular system performance reports are sent to nominated customer email accounts. These lay out energy usage, uptime % and a fault matrix to give unparalleled analysis of press productivity to operational management.



RHINO touch panel

Combined with the comprehensive instruction and service manuals available from GEW, your press operators will have total confidence in their new UV system.

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.

Multilingual instructions are easily accessible on every screen ensuring operators can always fully understand the UV control.



Power supply

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.

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

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.

Minimal footprint RHINO Rack

A compact cabinet that houses power supplies for up to 6 lamps and provides perfect cooling, atmospheric protection and mains power distribution.

Power supplies slide into the rack and connect quickly, enabling more lamps to be easily added to the system in future.

5 year warranty available

No unplanned maintenance costs for 5 years: using GEW's embedded service package means total confidence in the reliability of GEW UV systems and backed up by a warranty unrivalled in the industry.

GEW is the only supplier to offer a 5-year warranty for their systems.

"It's not just a system to upgrade your machine, it's a system that can upgrade your whole company."

Andree Bergman
Managing Director
Bergman Media, Netherlands



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