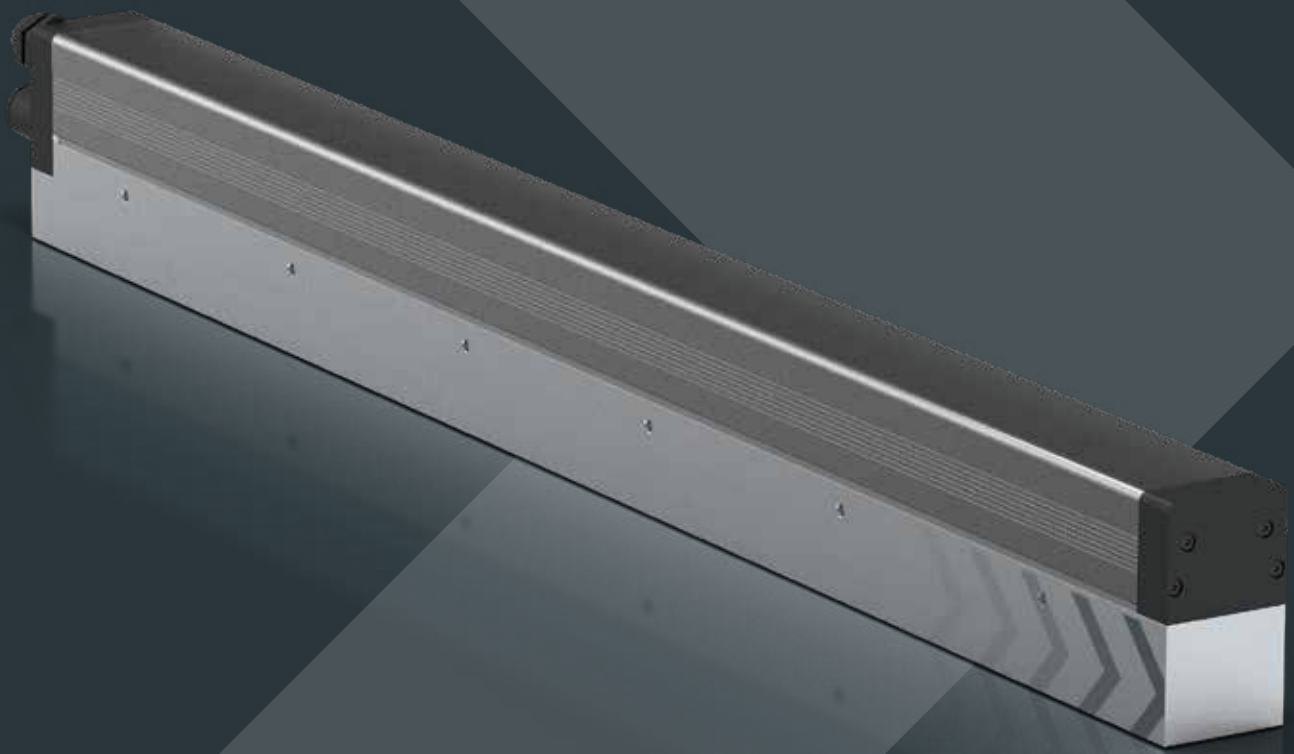
modulux

by IST METZ



modulux Turbo

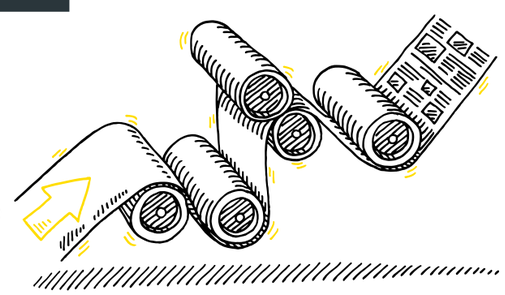
LED UV +

... is economical:

- minimised processing time due to dry sheets
- long service life of LEDs
- no warm-up and cooling-down times, immediate availability
- no powder, extended cleaning intervals
- protective varnish is not required
- cost-saving due to format switching
- lower ink consumption compared to conventional printing inks

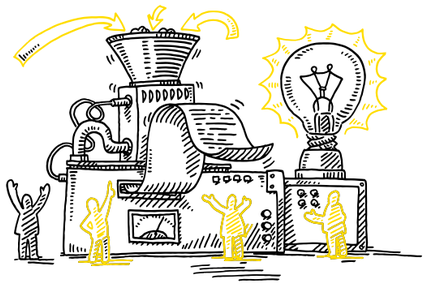
... is suitable for retrofitting your printing press:

- lower investment
- quicker return on investment
- shorter installation times than other drying systems
- significant machine value increase due to retrofit
- successful certification and recertification to PSO/ISO 12647 possible



... extends your range of applications:

- brilliant colours and high contrast on diverse substrates
- minimal heat transfer to the print substrate, ideal for synthetic and heat-sensitive substrates
- immediate processing, reduction of delivery times
- industry-leading modularity and expandability

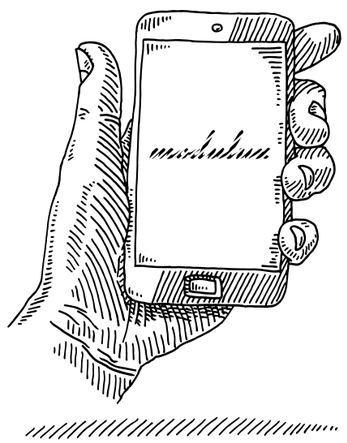


... also offers many benefits to newcomers:

- instant drying of inks and coatings
- no colour change
- brilliant print results, perfect gloss with inline coating
- higher mechanical resistance compared to oil-based colours
- solvent-free ink and coating systems
- easier and faster production on plastics, metallised and uncoated materials
- space and time saving: short processing times since no storage space required for drying time before further processing

... protects the environment and conserves resources:

- no powder, ozone or mercury
- no extraction required
- LEDs can be switched on/off immediately, no energy use on stand-by
- minimum thermal impact on the substrate and the printing machine
- no additional warming of the printing room
- format switching and sheet clocking



WOULD YOU LIKE TO RETROFIT YOUR EXISTING PRESS WITH THE INNOVATIVE LED TECHNOLOGY OF MODULUX? +

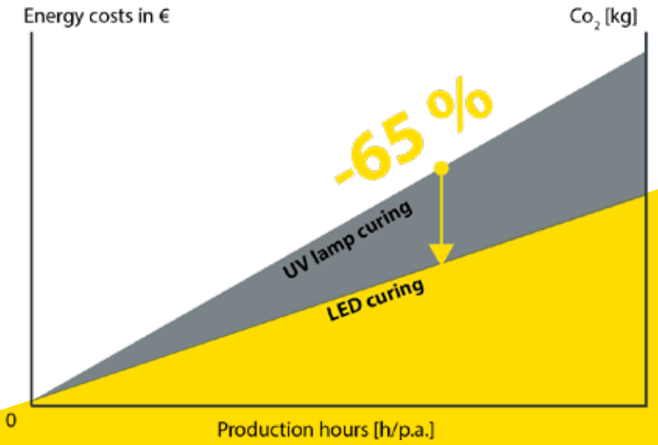
YOUR BENEFITS +

Why convert to LED UV?

+ **Save energy** *(up to 75% saving possible)*
+ **Fast return on invest** *(2-3 years possible)*
+ **No Mercury No Ozone**
+ **Extreme compact design**
+ **Instant On / OFF Format Switching**
+ **modulux Care** *(2 years warranty*)*

>> energy efficient **curing.**

By converting your machine to LED-UV you reduce your CO2 footprint, reduce your energy costs by up to 75 % (compared to a UV medium pressure lamp) and speed up your process at the same time.



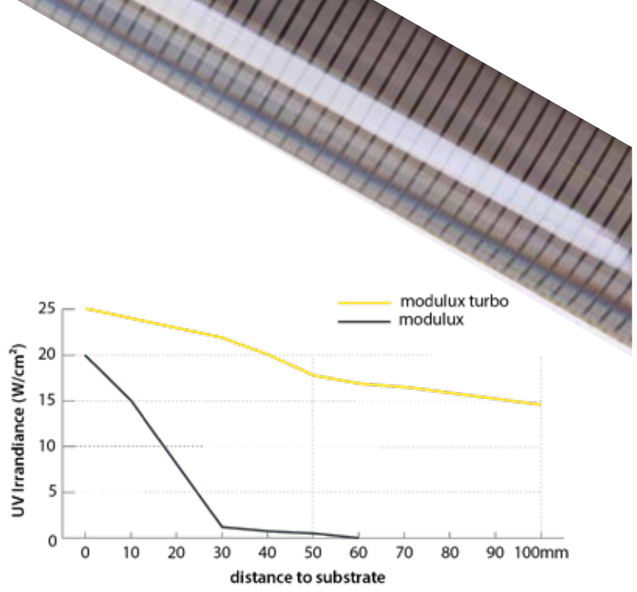
HIGHLIGHTS +

Light sources with fine optical design

The LED curing systems from modulux are completely modular. All essential components such as the power supply unit (PSU), controls and light sources (LED heads) are standardised and can be configured flexibly.

This results in considerable advantages for the customer, as any necessary replacement of components over the entire service life of the system is uncomplicated and cost-effective.

Light sources with a customized lens provide better balance of dose and UV irradiance intensity, which means better curing quality.



MAXIMUM EFFICIENCY AND SERVICE +

Optimised solution for larger distances

Our innovative system has been specially developed for applications where larger distances are required. Thanks to special optics, it enables optimum performance even with wider installation distances.

The high performance of our system makes it ideal for use in areas such as wide-web and sheet-fed offset, where high speeds and precise results are crucial.

Each light source is equipped with sensors, including temperature, voltage, current and others, to ensure the optimum operating condition of the system.

Simple integration with the press

Only speed on/off signals are required for the LED curing system to operate automatically. Additionally, more interfaces are available for higher levels of integration.

Services by IST:

- professional installation
- regular inspectations
- integration engineering
- Raytracing

Lightsource segmentation control

The light source is divided into different sections and the user can configure the operation of each section based on the width of the printed material. This capability allows for energy savings and helps reduce the adverse effects of UV light and heat on the press.

APPLICATIONS +

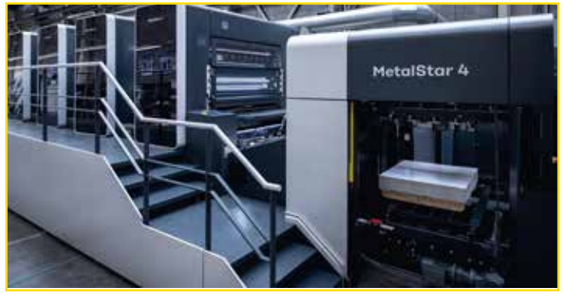
Turbo series product is widely used for:

- Sheet-fed offset printing for commercial and packaging
- Tinplate printing, varnish finish coating
- High-speed commercial rotary machine
- Color steel plate coating curing
- Rotary screen printing curing
- Floor, tile screen or printing curing
- PCB solder resistance, three anti-paint curing
- LCD screen a variety of process applications
- General building materiels, composite boards and other coatings curing
- Film bonding and functional coating curing

TECHs

Linear power	110-125W/cm
Max. power lamp	12,5 kW
Irridiance @45mm	15-16 W/cm²
Irridiance @100mm	14-15W/cm²
Optical design	collimated
LED recession @10000 hrs	<5%
avg. module failure	<0,3%/5000 h
avg. systeme failure	<1,5 times/5000h
Format switching	in 51 mm steps

Metal decoration and tinplate



Narrow web

Web

Sheet-fed

UV ANALYZER +

The “must-have” to quality assurance

The UV Analyzer is an innovative, app-based UV radiation measuring device. It consists of the UV Analyzer App for Android and iOS, the UV Analyzer measuring strips and the UV Analyzer Stick. The app can be downloaded for free from the Apple® App Store® or Google Play. With over 45 years of experience in UV technology, IST METZ exclusively distributes the UV Analyzer measuring strips and stick.

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