



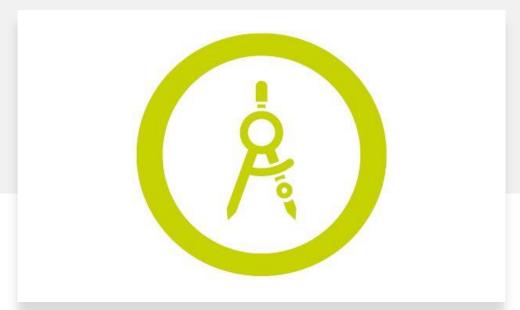
IST METZ today

- UV technology in all variants:
 - Classic UV systems with medium pressure lamps for the printing and converting industry as well as various industrial applications (sheet-fed offset, web printing, converting & industry)
 - UV Excimer Technology
 - Inert UV systems
 - Hot air/IR for corrugated digital printing (HP)
 - LED UV systems from 30 2000 mm

Remember MBS LEDcure in 2010? The bridge from Lamp to LED

Design and Handling

- All relevant components of the UV dryer can be accessed without touching a single screw
- Quick and easy to switch between the UV lamp system and UV LED system
- Good for testing and bridging the past years





LED Productportfolio

- Small, compact handheld devices for repairing surfaces and coatings (e.g. wind turbines) or laboratory-scale tests
- Small-format systems for web printing applications in label printing (speed ranges up to approx. 200 m/min) as near-field systems for working distances up to approx. 15 mm





LED Productportfolio

 Large Equipment for working width over 2m





LED for sheetfed offset presses with optics up to approx. 80 mm distance (gripper bars, sheet edge)





Hi Speed LED UV

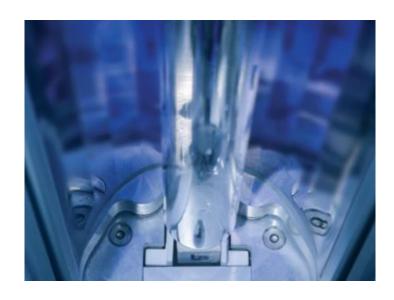


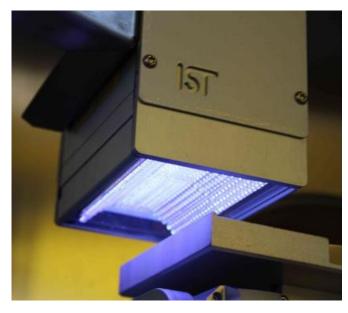
- Several trial installations with LED UV have been successfully carried out
- First practical installations are realized
- The compact design allows installation in tight spaces
- The first fast running press went in production in Q1/2023 in Switzerland. This press is operated at 12 m/sec (720 m/min)



LED UV & Lamps

- Both variants are technologies of UV Curing
- LED UV offers significant advantages compared to UV lamp such as:
 - Reduced energy consumption
 - Low heat impact on the substrate
 - Compact design / easy integration
 - No ozone generation
 - No mercury
 - Wider dimming range
 - Format adaption
 - •





Modulux for label printing







2020

- Under the new sales brand "modulux" (modularity = building block; lux = luminous intensity)
- LED systems under the "modulux" brand are a lean and cost-effective solution for the label market.



Retrofit into exisiting systems

- Thanks to the small sizes a retrofit into existing Systems is easily possible
- Adapter System allow the installation without any press modification





>> Watercooling

- > No exhaust
- > No contamination by deposits of printing ink or dust
- > No noise development
- > little installation effort
- > Small housing sizes

LED UV for FCM (Food Contact Materials)

- FCM Formulations require a high UV Peak and UV Dosage in order to achieve a fully polymerized ink / coating film
- The Modulux LED System always includes an optical lense which ensures a high UV energy on the substrate and eliminates wasted light caused by the common characteristics of LED's (light provided in 180° angle)
- The focused light distribution via a rod lens over the entire web width ensures a uniformly high and absolutely homogeneous irradiation output
- The sealing of the lens avoids air flow over the optics and reduces contamination to a minimum

