

LE UV ENERGY-MINIMISED DRYING

The IST LE UV-System has now made it possible for all sheet-fed offset printers to benefit from the advantages of energy-minimised drying – at low investment and operating costs! Just one dryer is required in the machine for all standard applications. For perfecting presses, a dryer is additionally used before the perfecting device.

ADVANTAGES OF AN ENERGY-EFFICIENT DRYING PROCESS

IMMEDIATE DRYING OF THE PRINTING INK

- The sheet can be passed on immediately for further processing, there is no interim storage required for drying the printed sheets
- There is no need for powder to be used
- Good level of abrasion resistance, no protective coating required
- There is no additional IR drying necessary, thus saving energy costs

BRILLIANT PRINT RESULTS

Thanks to maximum process reliability and immediate drying, the highest of quality standards are met:

- Low level of ink setting
- Bleed ink area possible
- Superb finishing options

LESS SPACE REQUIRED FOR DRYING

The innovative IST LE UV-System takes up less space in the printing room than both conventional drying systems and traditional UV systems:

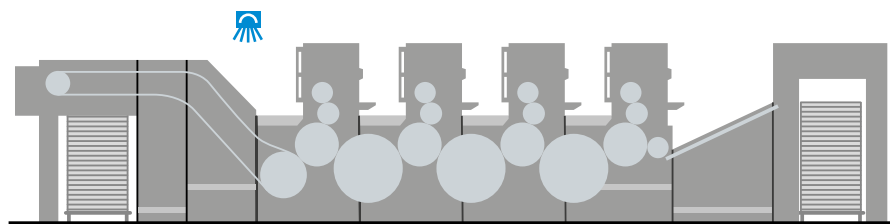
- No delivery extension necessary for drying
- Space required for switch cabinet, heat exchanger and exhaust-air unit < 2 m²
- No interim storage needed for printed sheets

AREAS OF APPLICATION OF THE LE UV-SYSTEM

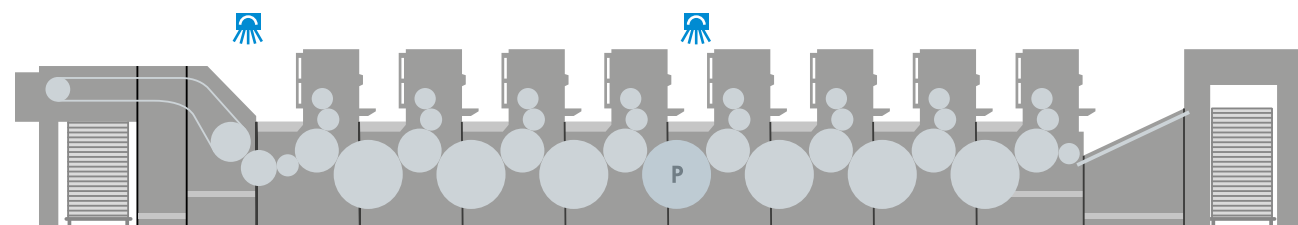
- The IST LE UV-System can be used for any printing jobs where conventional colour systems were previously used and where the advantages of energy-minimised drying are now to be utilised:
- **Colour:** Mainly process-colour printing of standard density, varnishing possible
- **Substrates:** Paper from approx. 80 g/m²
- **Inks:** Adapted reactive systems
- **Press:** With UV preparation
- **Printing speed:** No restrictions (prerequisite: adapted ink systems)



FEATURES OF THE IST LE UV-SYSTEM



For all standard commercial printers, just one dryer is required after the last printing unit.



For perfecting presses, a dryer is additionally used before the perfecting device.

URS® COLD MIRROR REFLECTOR TECHNOLOGY

The URS® cold mirror reflectors only reflect the short-wave light, allowing the thermal radiation to pass to a cooled aluminium profile. The geometry and reflection properties of the URS® reflectors are designed to match exactly the requirements of each production process.

LAMP OUTPUT

The reduced number of lamps (typically 1 lamp with 200 W/Cm lamp output) saves energy and thus leads to significant cost savings. When using adapted reactive colour systems, there are no restrictions in terms of drying or productivity.

OZONE-FREE OPERATION

The use of special lamps facilitates an ozone-free operation.

ELECTRONIC POWER SUPPLY DEVICE ELC®

The electronic lamp control system (ELC®) adjusts the lamp output steplessly coupled to the printing speed of the press. Due to the high electrical efficiency the ELC® features a low energy consumption. Operating voltage fluctuations of $\pm 10\%$ do not affect the lamp output.

CONSTANT TEMPERATURE LEVEL

The integrated air cooling guarantees a smooth operation of the lamp. The sophisticated water-cooling of the shutter, the reflectors and the housing ensures that the produced heat is effectively removed from the press. A water/water heat exchanger is standard. Optionally an air/water exchanger is available.

WE HAVE THE CURE

IST METZ GmbH & Co. KG
Lauterstraße 14–18 | 72622 Nürtingen | Germany
Tel.: +49 7022 6002-0 | Fax: +49 7022 6002-76
E-Mail: info@ist-uv.com

IST France Sarl | info@fr.ist-uv.com
IST (UK) Limited | info@uk.ist-uv.com
IST America – U.S. Operations, Inc. | info@usa.ist-uv.com
IST Italia S.r.l. | info@it.ist-uv.com
IST Benelux B.V. | info@bnl.ist-uv.com

IST METZ UV Equipment China Ltd. Co. | info@cn.ist-uv.com
UV-IST Ibérica SLU | info@es.ist-uv.com
IST Nordic AB | info@se.ist-uv.com
IST METZ SEA Co., Ltd. | info@th.ist-uv.com