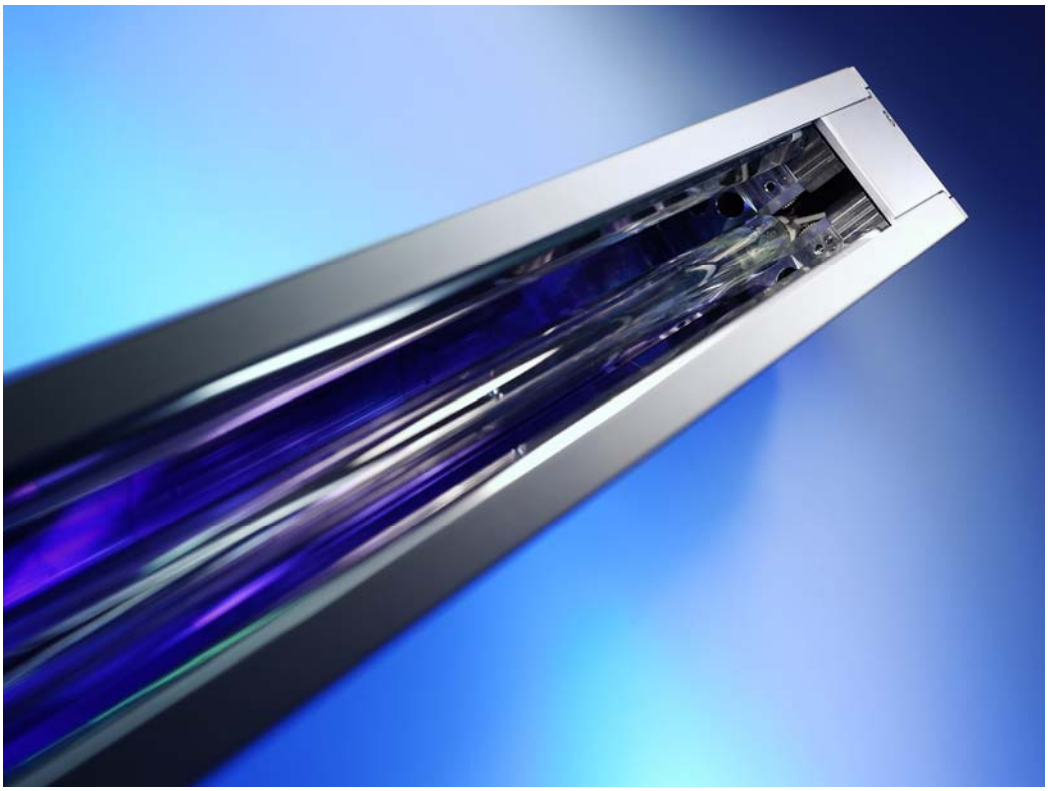
UV Curing Systems for the Graphic Art Industry

Scratch-resistant print – brilliant colours



Features

- **unique UV expertise:**
  UV dryers, lamps, electronic ballast and control systems from our own development
- **arc length 100 mm – 2600 mm**
- **power up to 240 W/cm**
- **continuously variable power control, 20% - 100%**
- **all standard and many special spectra**

Benefits

- **high production speed**
- **almost all materials can be printed**
- **convincing print quality through UV technology**
- **high register accuracy**
- **reduced energy expenditure**

UV Print

Applications

UV curing systems for the graphic art industry can be used in many print applications:

- rotary offset
- flexoprint
- book printing
- rotogravure
- screen printing
- inkjet

A great variety of materials can be processed. Textiles, cardboard, plastic, metal, paper, wood, glass, or even stone panels can be printed with the help of UV technology.


wall decoration with UV inkjet

The Hönle cold UV system, Advanced Cold Mirror, in combination with a PLC controller and the electronic ballast EPS make it possible to have an optimum drying process and perfect print results even on temperature-sensitive materials such as mono films or shrink sleeves.

Convincing print quality

Compared to water-based colours or colours containing solvent, UV-based printing provides a sharper dot structure and particularly brilliant colours. Furthermore, the print results are solvent resistant as well as very scratch resistant.


label printing

Efficient production

The use of UV dryers increases production speed. The freshly printed objects can be further processed immediately, without a waiting period. UV colours are mostly solvent-free and therefore only dry under UV radiation. The print machine must be cleaned less often – both set-up times and job change times are reduced quite considerably.


wall decoration Drupa 2004

UV curing systems from Hönle

Unique UV Competence: The Hönle Group offers UV dryers, lamps, electronic ballast and control systems from its own development. All system components are optimally matched to a specific requirements profile.

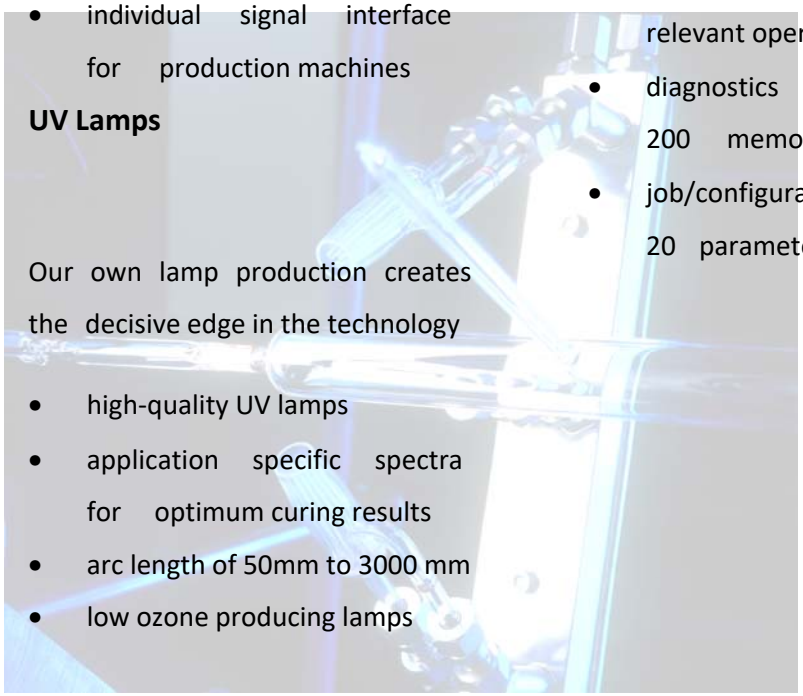
UVAPRINT -
the successful equipment series

- UV high performance dryer with arc lengths of 100 mm – 2350 mm
- ACM cold UV systems for temperature sensitive materials
- lamp power individually settable for every lamp up to 240 W/cm
- application dependent UV power, controllable between 11% and 100%using the machine speed
- individual signal interface for production machines

UV Lamps

Our own lamp production creates the decisive edge in the technology

- high-quality UV lamps
- application specific spectra for optimum curing results
- arc length of 50mm to 3000 mm
- low ozone producing lamps



EPS -
increasing effectiveness

Electronic ballast for UV discharge lamps

- High effectiveness: UV yield increased by approx. 10% compared to conventional transformer/ choke technology
- continuously variable power control
- compact construction
- improved lamp ignition
- extended lamp lifetime
- service-friendly due to pluggable connectors

MatrixX Process Control -
control of the drying process

- menu-driven user interface
- 5.7 " touch screen
- operation of up to 18 lamp components
- display and monitoring of all relevant operating parameters
- diagnostics memory with 200 memory entries
- job/configuration memory for 20 parameter sets

UV Technology

UV Print Machines