

## Press Release

Gräfelfing, 13. November 2010

# Innovative UV curing systems that cover a wide range of application fields

**At the European Coatings Show Hönle presents its wide range of solutions and systems for applications in the curing and drying process of UV-reactive coatings and varnishes.**

Hönle offers innovative curing systems for coating, finishing and varnishing of web-like substrates and 3D objects. The curing process occurs in a split second and provides excellent printing results as well as high-quality and robust surface-finishing of various materials.

### **UV curing in inerted atmosphere**

This UV technology with its additional developments has been finding its way into various industries more and more. Particularly high-quality coatings are usually cured with inert technology. In the inertion process the oxygen (O<sub>2</sub>) in the irradiated area is displaced by an inert gas (usually nitrogen). With inert UV curing, a significantly lower proportion of photo-initiator within the UV ink and varnish is required. Inert UV curing increases printing efficiency and saves energy, because less lamp power is required than in an oxygenated atmosphere. This is also an advantage for printing on temperature-sensitive substrates. At the European Coatings Show Hönle presents an inerted UV curing system

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Page 1 of 3

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Page 2 of 3

for the finishing of films and prints.

### UV-LED Technology

UV-LED is another important further development of classic UV technology. At the European Coatings Show 2011 Hönle will show its LED powerline. This is a high-speed array for a pinning and curing process with printing applications as well as for the curing of adhesives and sealants. The curing of coatings and varnishes with UV-LED is still a future technology. Nevertheless the commodity and coating compound manufacturers are developing more and more products to react to market requirements.

### PureUV

Another high-performance dryer is the Hönle-developed pureUV. This unique design prevents direct irradiation onto the substrate. The unwanted infrared energy is carefully filtered out by the patented reflector geometry. The result is highly effective irradiation with a low temperature emission – ideal for curing temperature-sensitive substrates. The high radiation intensity leads to substantial improvements when curing colours, varnishes, coatings, adhesives and sealants.

In addition to their innovative UV curing systems Hönle will exhibit their versatile curing chamber, the UVACube 2000, along with their approved UV measuring systems; UV Meter and UV Scan. The UV Scan was developed together with the company tesa® and allows a simple and reliable analysis of the UV dose in the production process.

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Page 3 of 3

### **Minimizing energy by the use of Electronic Power Supplies (EPS)**

With a maximum power of 34kW, the power output of the EPS gives a 10% higher UV yield for the equivalent conventional transformer. The use of a Hönle EPS together with high-quality lamps and optimized reflector geometry leads to higher efficiency at a lower energy-consumption.

**Visit Hönle at the European Coatings Show 2011 in Nuremberg , 29 - 31 March 2011 in hall 9 on stand 362.**

**About Hönle:** The Dr. Hönle AG, head of Hönle Group, is one of the world's leading suppliers for industrial UV technology. The UV specialist, who is noted on the stock exchange, develops, manufactures and distributes UV systems, UV lamps and UV measurement equipment worldwide. The systems are used in the cross-linking of photo-reactive substances, for surface sterilisation and solar simulation.

Hönle products are used in manufacturing processes in electronics, microelectronics, precision engineering and the optical industry, and in the printing, automobile, aerospace, pharmaceutical and photovoltaic sectors.

For years the UV specialist Hönle has been very successful in the curing and coating technology. The innovative Hönle UV systems can be integrated easily into particular manufacturing processes where they achieve excellent results.