

Press Release

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High-End UV curing systems for the coating industry

At the ICE 2011 the Hönle Group's curing specialist's present their broad range of curing systems as well as trendsetting new developments for the coating industry.

Compact curing systems that are easy to integrate into existing and new coating and finishing lines are the core of the Hönle Group's offerings at this year's ICE trade fair from November 8 - 10 in Munich, Hall B5, Stand 850. Represented by curing specialists Hönle, Eltosch and PrintConcept, the Group will present its entire spectrum of curing technologies and related products, which range from IR and hot-air modules through UV units to innovative new UV inert systems.

The Products – UV systems

Hönle, one of the world's leading suppliers for industrial UV technology presents their approved high-performance dryer **pureUV** (arc length from 100 up to 2600 mm). This UV dryer features a unique design and patented reflector geometry that prevents direct irradiation onto the substrate, whilst the unwanted infrared component is carefully filtered out. The result is a highly effective UV irradiation with a low temperature emission – ideal for curing on temperature-sensitive substrates. Hönle's designers have focussed on making the design as compact as possible to make the **pureUV** easy to handle and to integrate in nearly all printing machines.

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Eltosch, the sheet-fed offset printing specialist in the group, will present its proven **LightGuide** UV module. The advantages: high performance and low power consumption, easy and quick to replace reflector inserts for flexible adaptability of UV intensity for any given process. In combination with a Hönle EPS (electronic power supply) the LightGuide System was certified for “energy minimised” UV printing.

For narrow web applications between 150 mm and 550 mm the innovative **PC-1-A-ECO** is an excellent choice. This PrintConcept-developed UV system guarantees highly effective curing – even on temperature-sensitive substrates – as well as easy handling through its patented lamp insert system.

For wider webs, between 450 mm and 2,800 mm, PrintConcept has developed the water-cooled **PC-2-W-ECO** system. Like its smaller counterpart, this UV curing system is ideally suited for curing even on temperature-sensitive substrates and features a patented symmetrical water cooling system that passes the cooling water through the aluminium profiles, the reflectors and the heat sink.

Inerted UV curing

Inerted UV curing can provide an alternative to conventional UV curing systems. In packaging printing, inerted UV systems are increasingly popular because they minimise the amount of photoinitiator needed.

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As well as helping to save costs, this reduces the emission of odours – an important factor especially in food packaging.

The Hönle Group supplies a wide range of UV products that can be incorporated in inerted chambers. At the ICE show the Group will demonstrate an inerted UV system for low-migration inks. PrintConcept's **PC-ECO-Inert** guarantees excellent, fast curing with low nitrogen consumption. With its height-adjustable inlet and speeds of up to 450 m/min the system is exceptionally user-friendly. The **PC-ECO-Inert** combines sophisticated UV technology with all the advantages of nitrogen inerting in a single, durable product: A high degree of cross-inking, minimal ozone emission and a significantly reduced migration and odour generation.

A view into the future: UV LED driers in the printing industry

In many industries UV LED curing technology is already in common use. The experts agree that this promising technology will continue to develop and become generally accepted, also in the printing and coating industry. The Hönle Group is very aware of this development. At the ICE Hönle will present its wide range of UV LED products that have already firmly established themselves in different markets, e.g. inkjet printing.

The flagship is the **LED Powerline** – a high-performance array that is ideal for pinning and final curing. The LED Powerline delivers high intensity; its low weight and compact size of just 88 mm × 20 mm × 50 mm permit its integration into the smallest spaces. The LED Powerline is

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available in variable lengths. It can be extended in 40-mm steps to any size required.

IR and Hot-air drying systems

The Hönle Group offers also high-end drying systems beyond the UV spectrum. With their **ECODirect** and **ECODirect smart**, pioneers in hot air drying systems, Eltosch, have developed modules that meet the performance, efficiency and drying criteria of today's high-speed printing machines.

Visit the Hönle Group at the ICE show in Munich, 8 to 10 November 2011, Hall 5, Stand 850.

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About the Hönle Group: In addition to the original head office, UV systems specialist Dr. Hönle AG, the Hönle Group also comprises of the UV dryer specialists PrintConcept (rotary printing) and Eltosch (sheet-fed offset printing). Further subsidiaries are Aladin GmbH (UV lamps), UV-Technik Speziallampen GmbH (UV/IR lamps) and the adhesives specialist Panacol. The German based Hönle Group has local subsidiaries in China, France, Spain, United Kingdom and the USA as well as a sales office in Italy. The Hönle Group also has an extensive worldwide network of experienced sales and service partners.