

Press Release

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Inerting and UV LED Technology

At the ICE 2009 trade fair the Hönle Group's curing specialists present trendsetting new developments for the coating industry

Compact curing systems that are easy to integrate in existing and new coating and finishing lines are at the core of the Hönle Group's offerings at this year's ICE trade fair. Represented by curing specialists Hönle, Eltosch and PrintConcept, the Group will, for the first time, present its entire bandwidth of curing technologies and related products, which range from IR and hot-air modules through UV curing systems to innovative new UV LED products.

The Products

A new-generation high-performance dryer, the Hönle-developed **pureUV** features a unique design and patented reflector geometry that prevents a direct irradiation onto the substrate, while unwanted infrared components are carefully filtered out. The result is a highly effective 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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For narrow web applications between 150 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 being easy to handle thanks to its patented lamp insert system.

For wider webs, between 450 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.

Eltosch, too, has enjoyed success with its proven **LightGuide UV module**. As well as a high performance at low power consumption, LightGuide features reflector inserts that are easy and quick to replace, which allows for a flexible adaptation of the UV intensity for any given process.

With their **ECODirect** and **ECODirect smart**, pioneers in hot air drying systems, Eltosch have developed modules that meet the performance, efficiency and drying performance criteria of today's high-speed printing machines.

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Innovative UV LED units

UV LED technology is also making inroads in the printing industry. The Hönle Group is very aware of this development. At the ICE Hönle will present its wide range **UV LED products** that have already firmly established themselves in different markets. For example the **LED Powerline** – a high-performance array that is ideal for pinning and final curing. The LED Powerline delivers a high intensity and can be programmed by the user for a wide range of production sequences, making it the perfect candidate for fully-automated production lines. Its low weight and compact size of just 88 × 20 × 50 mm permit its integration in smallest spaces. The LED Powerline can also be used in cleanrooms.

Nitrogen inerting

In package printing, nitrogen inerting UV systems are increasingly popular because it minimises the amount of photoinitiator needed. As well as helping to save costs this reduces the emission of odours – an important factor especially in food and beverages packaging.

The Hönle Group supplies a wide range of UV products that can be incorporated in inerting chambers.

At the ICE the Group will demonstrate an inerted UV system for low-migration inks. PrintConcept's **PC-ECO-Inert** guarantees excellent, fast curing at low nitrogen consumption. With its height-adjustable inlet and

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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.

Visit the Hönle Group at the ICE in Munich, 24 to 26 November 2009, Hall 3, Stand CO1.

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About the Hönle Group: In addition to consolidation parent and UV systems specialist Dr. Hönle AG, the Hönle Group comprises Aladin GmbH (UV lamps) and adhesives specialists Panacol. Further members are the dryer specialists PrintConcept (web offset printing) and Eltosch (sheet feed offset printing). Beside subsidiaries in France, Spain and the United Kingdom and a representative office in China Hönle has a dense worldwide network of sales partners.