

Press Release

Gräfelfing, 17th April 2014

Individual UV and UV-LED Systems for Printed Electronics

At Lope-C Dr. Hönle AG shows cutting-edge UV and UV-LED technology for fast and secure curing in printing processes.

From 27th to 28th May LOPE- C will take place in Munich for the third time. This leading fair shows the enormous progress in an emerging technology, regarding end products and especially regarding manufacturing processes. The difficulty lies in the various materials which have to be accomplished, usually in several steps. **Central importance lies on the right curing process.**

Dr. Hönle AG is a worldwide acknowledged expert for UV curing technology. For almost 40 years Hönle has been developing UV systems for the graphic industry, but also for various applications in the field of electronic manufacturing. One of the greatest advantages of UV technology for printed electronics is the **complete curing of the polymer materials within a split second**. Thus, immediate further processing is possible. In addition, UV curing can be applied even for temperature-sensitive substrates, e.g. thin foils – by using well-engineered reflector geometrics or LED variants. The possibility to match irradiation times and performance exactly to application and substrate makes UV curing very efficient, in any respect.

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Conventional UV technology

Hönle's huge range of classic UV systems reflects the multitude of applications for this approved technology. Due to their great in-house production depth each Hönle product is unique, which is optimally customized to the process requirements, as to width, performance, spectrum or reflector geometrics.

UV-LED technology

UV-LED technology gains importance for printing but also for bonding applications. One reason for its success is the very long LED life-service. Another is the fact, that LEDs can be switched on and off as often as desired, without any heating or cooling phases. Perfect for cycled operation!

LED-trendsetter Hönle offers a wide range of high-end UV-LED curing systems. They are available with the wavelengths 365/385/395/405 nm +/- 10nm and with intensities up to 16 W/cm². **Customized solutions are possible anytime.**

Products of the **LED Powerline-series** allow a high-intensive UV irradiation. They are available in different irradiation widths from 76 up to 1.500mm and wavelengths and can so be optimally matched to any application. Due to their huge success, Hönle has been further developing their LED Powerline continuously, always in close cooperation with the users. Thus, today customers can choose between water- and air-cooled solutions, which can be optimized for any application.

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The emission spectrum of the compact UV irradiation chamber **LED Cube 100** can be adjusted to versatile processes by applying different LED lamp units. It is especially used for bonding and sealing components in electronic manufacturing processes. A reflecting inner surface and optimized reflector geometrics provide for a homogenous irradiation and high process reliability.

Key components made by Hönle

To guarantee their customers best quality, Hönle manufactures all important key components in-house: UV lamps and reflectors as well as electronic power supplies. This results in customized UV curing systems for highest process reliability.

Visit us at LOPE-C 2013, hall B0, stand 201!