

Press Release

Gräfelfing, 7th May

UV Technology for Printed Electronics

Reliable curing for a future technology

From June 11-13th 2013, LOPE- C will take place in Munich for the second 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 more than 30 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, as e.g. thin foils – by using sophisticated 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.

At LOPE-C Hönle show their broad range of UV and UV-LED curing systems. The products of the innovative **jetCure-series** provide for

Press Contact:
Catherine Gettert

phone: +49 (0)89 8 56 08-170
catherine.gettert@hoenle.de
Lochhamer Schlag 1
82166 Gräfelfing

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outstanding curing results, even at high speeds. This leads to advanced printing quality.

jetCure units are equipped with cold mirror reflectors for temperature-sensitive materials and available with adjusted lamp spectra. The length of a **jetCure** can be individually matched to any printing process. As customized as possible!

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 365/385/395/405nm +/- 10nm and with intensities up to 16 W/cm².

Products of the **LED Powerline-series** allow a high-intensive UV irradiation. They are available in different irradiation widths (from 76 up to 1.500 mm) 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 the product line comprises of a multitude of process oriented variants:

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LED Powerline LC - Liquid Cooling

LED Powerline IC - Integrated Control

New: LED Powerline HP – High Power

New: LED Powerline AC - Air Cooled

New: LED Cube 100. The emission spectrum of this compact UV irradiation chamber 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 a high process reliability.

The LED point source **bluepoint LED** has been developed for all applications which need a high-intensive UV irradiation. The possibility to program complete process sequences, e.g. exposure times with different intensities and holding times, allows shortest cycle and machine throughout times.

Key components made by Hönle

To guarantee their customers best quality, **Hönle manufactures all important key components themselves: 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 401!