

## Press Release

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# Drying and Curing Systems for Coating Applications

**At the European Coatings Show 2017 drying expert Hönle presents UV, UV-LED and IR systems which are optimally tailored to the specific demands of the coating industry. Amongst them are new developments especially in the field UV-LED technology.**

Various materials, web-shaped or 3D substrates, different kinds of coatings, like varnishes, inks, adhesives or silicones – as diverse as coating or finishing applications may be: drying and curing with IR or UV technology is always a good choice, not only regarding the result, but also the efficiency.

UV-LED curing is playing an increasingly important role in coating applications. On this field Dr. Hönle AG has been a pioneer during the recent years. At the European Coatings Show 2017 Hönle presents brand-new UV-LED systems which are very successfully applied for pinning and final curing.

**The product series LED Powerline:** This high-performance array is available in numerous versions. The LED Powerline can be perfectly matched to each application. It is offered in different wavelengths and with air or water cooling. Its design ranges from light and compact up

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to UV-LED curing units > 2 m. Due to their modular design several LED-Powerline units can be connected to any size without gap.

**New in this product line: the LED Powerline Focus.** It is optimized for distances > 50 mm to the substrate. The special focusing optics provides high intensities and leads to excellent curing results even at high printing speeds. Its modular design allows format shutdown and thus efficient curing on differently sized substrates. Hence, LED Powerline Focus is apt for a multitude of printing applications as for example in sheet-fed offset.

**The high-performance curing units of the jetCURE series** were specifically developed for inkjet printing applications. **The new jetCURE LED** is very effective in every respect. It is available in the wavelengths 365/385/395/405 nm +/-10 nm. Due to its modular design (grid 82 mm; separate control of each module) jetCURE LED can be adapted to any application. It offers high radiation intensities for advanced and fast curing.

Another member of the product family is **jetCURE IR**. This **compact and powerful IR/hot air** module has got an integrated extraction which exhausts the humid warm air from the drying zone. Different wavelengths can be generated by an easy exchange of the IR lamp.

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Always depending on the application, it may be the better choice to apply a conventional UV curing unit: High-quality UV lamp units are the **pureUV** by Hönle und the **LightGuide** by Eltosch Grafix.

**Now the engineers of Hönle Group have managed to meld the advantages of these two very successful UV units to one UV system:**

**The LightGuide pureUV.** It is a compact, powerful and still energy-saving UV unit which guarantees fast and reliable curing of varnishes and inks on temperature-sensitive substrates. The so far water-cooled barrier was replaced by a quartz glass tube. This results in a more than 50% higher peak intensity and 10% more drying performance – at a 15% lower temperature load.

**These three UV units can perfectly be used in inert atmosphere** and hence are ideal for high-quality coatings as used for packaging or siliconizations. For some applications it is also appropriate to use **inert UV-LED**, e.g. for improved surface curing.

### **For laboratory and manual production**

The **LED Cube 100** is a compact UV irradiation chamber for the use in the laboratory or for manual production. By employing different LED units the emission range is adjustable to various fields of application. The LED assembly as well as an electronic power control guarantees high intensity and homogenous distribution of light.

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The **flexible UV conveyor belt** is an absolute must-have for developing varnishes, inks and adhesives, but it also perfectly apt for the simulation of manufacturing processes. This table conveyor with a band width of 310mm can be equipped with different technologies: According to the application UV-LED, UV or IR systems can be integrated very easily.

**Visit the Dr. Hönle AG at the European Coatings Show 2017 in hall 5, stand 237.**