

Press Release

Gräfelfing, May 14th 2019

Press Contact:
Catherine Gettert

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

Page 1 of 3

One LED-UV System, two Versions

Within the jetCURE product line Dr. Hönle AG offers infrared, hot air, UV and LED-UV drying and curing systems specifically designed for inkjet printing. With the latest further development of jetCURE LED the company again proves their expertise for this particular printing application. The jetCURE LED system is offered in two versions.

Both versions of the jetCURE LED are LED-UV curing systems with integrated air-cooling. The air is ducted via a filter on the top inside the cooling system. The two versions differ in the discharge of the exhaust air.

The **jetCURE LED T** has a cooling air outlet on both sides of the housing. The exhaust air is discharged towards the top. This version is perfect for the use in inkjet printing machines where the LED-UV curing unit is integrated into a housing and mounted on the print carriage or is stationary fixed on a R2R plant.

The **jetCURE LED S** is an ideal choice for a free mounting on the print carriage. This version offers a one-sided cooling air outlet, the exhaust air is led sideways. This prevents a direct airflow towards the printing heads which could have an impact on the printing quality.

In addition to the cooling, also other features of jetCURE LED are perfectly

Press Release

Press Contact:
Catherine Gettert

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

Page 2 of 3

matched to the demands of inkjet printing where this LED-UV device is used for pinning, as well as, for final curing inks and varnishes.

With the new design, the weight of **jetCURE LED was reduced** by approximately 10% compared to the previous model, the exact weight depends on the individual application and the printing width. Reducing the weight of the curing unit means less mechanical load on the print carriage – a great advantage, especially for moving machine parts.

The **length of jetCURE LED is variable** and can be increased in a 41 mm grid from 82 mm up to 656 mm. Even further customized designs are possible. Thanks to its variability, jetCURE LED can be applied for any inkjet printing process – **from narrow web to XXL**.

The **width of the light aperture is optional at 20 mm or 40 mm**.

The 40 mm version guarantees a significantly longer irradiation time and thus a considerably higher UV dose on the substrate. In combination with a **continuous power control between 5 % and 100 %**, the curing properties of jetCURE LED can be optimally adapted to the printing substrate.

Depending on LED-assembly and wavelength (365 nm, 385 nm, 395 nm or 405 nm) the high-performance curing system reaches **extremely high intensities of up to 18.000 mW /cm²** which leads to a lightning-fast, complete curing of inks and varnishes. This allows **very fast through-put times**.

Press Release

Press Contact:
Catherine Gettert

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

Page 3 of 3

One of the advantages of LED-technology is the possibility to switch the LEDs on and off without any delay or any loss of power. As a result, jetCURE LED can be applied for highly efficient clocked operations in the millisecond range.

However, there is a general rule: High performance is not the sole means for first-class curing results. It is more important to match the LED-UV with the ink or coating as precisely as possible. For this reason, when planning a new application, **in-advance testing in the laboratory** is strongly recommended by UV expert Hönle who – for this purpose – offer their customers an applications lab.