hönle group

hönle uv technology

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Press Release

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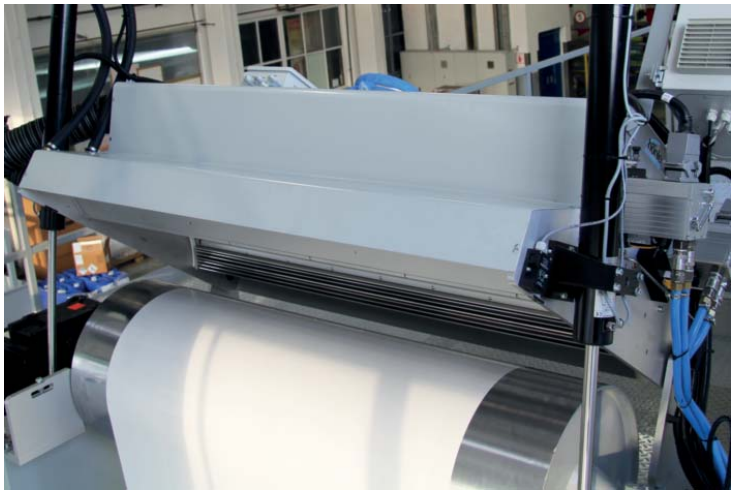
Successful siliconization of temperature-sensitive materials



Hönle UV inert system with chill drum in a WIFAG-Polytype GmbH coating system.

Working in conjunction with the plant engineering company WIFAG-Polytype GmbH, UV specialist Hönle has installed an inert UV chamber for siliconizing temperature-sensitive materials.

The processing chamber contains a substrate web passing over a water-cooled chill drum, which is designed to dissipate the heat (IR) that arises during UV irradiation. This makes it possible to work with materials which are extremely sensitive to temperature.

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Using nitrogen inertization, the remaining oxygen content in the irradiation area can be reduced to < 50 ppm to facilitate complete polymerization. The compact, space-saving design of the processing chamber provides straightforward access to all system components, making it extremely easy to service. What is more is that the newly designed chamber reduces the N_2 consumption significantly in comparison to conventional UV inert systems.

Hönle's inert UV chambers rely on the company's tried-and-tested LightGuide lamp technology. It is even possible to select the number of lamp units and different arc lengths individually to suit the relevant application. The version shown, for example, is equipped with two UV lamp units with an arc length of 1,540 mm.

UV inert systems with water-cooled chill drums can be used in any application and are particularly suitable for high-quality coatings such as foil coating.