

# Illert achieves faster print speeds and improved performance with Phoseon Nexus UV LED curing systems

The Phoseon Nexus system brings significant energy savings, improved reliability, and has eliminated maintenance and drying issues seen with Illert's previous technology. UV LED technology offers increased press speeds of up to 200 meters per minute, which was previously impossible.

The Nexus platform was designed for flexographic printing applications and delivers the industry's best-performing solution. Nexus ONE is the first generation of the Nexus platform, followed by the second-generation Nexus II.

## CASE STUDY

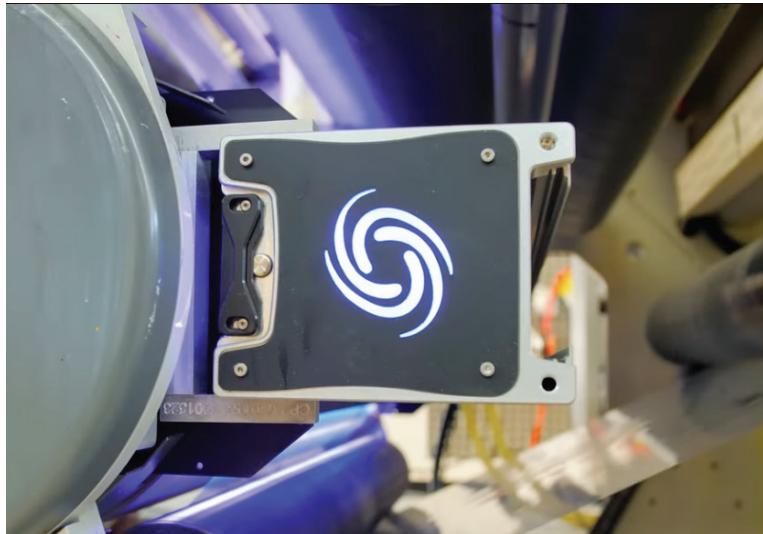
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## AUTHOR

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# Achieving flexibility utilizing UV LED technology



Illert Etiketten, headquartered in Hanau, Germany, has equipped its eight station OMET Varyflex flexographic printing press with Phoseon Nexus ONE™ UV LED curing systems from Excelitas. The press is used to produce shrink sleeves, self adhesive labels, and 300 gram cardboard and wrap around materials.

According to Maximilian Illert, who has been part of the company's management team since 2011, this level of production flexibility is made possible by flexo printing technology combined with the Nexus UV LED curing systems from Excelitas. When printing shrink sleeves, Illert can now achieve speeds of up to 200 meters per minute, which was previously impossible.

## UV LED technology improves performance

According to Jens Grosser, who has served as Production Manager at Illert since 1992, the company prints shrink sleeves using a wide range of materials, including PET film, OPP, PLA, and floatable films. Since installing the new UV LED curing systems, drying issues have completely disappeared. In the past, they frequently encountered problems such as insufficient drying on the roll, but those challenges are now fully resolved.

Grosser explains that the system not only improves drying performance but provides what he considers the most suitable curing method for shrink sleeve production. As for the advantages of the Nexus UV LED curing systems, he highlights two major points: they have not experienced a single malfunction since installation, and maintenance costs have effectively dropped to zero.

UV LED technology is exceptionally well suited for shrink sleeve production. It delivers significantly improved curing performance and more consistent sleeve shrinkage. By transitioning to LED inks, Illert has also been able to enter new markets, as the fully completed curing process ensures zero ink migration.

# Sustainability

Today's consumers increasingly prioritize environmentally responsible products—including labels and packaging. Companies that want to retain and attract customers must demonstrate a commitment to sustainability, and Illert sees UV LED as an important step in that direction.

Sustainability has become a central topic across the packaging industry. Maximilian notes that Illert was heavily impacted by the recent energy crisis, at times facing electricity bills approaching five figure amounts—a substantial burden. This experience ultimately became one of the decisive reasons the company chose to switch to UV LED technology. The UV LED systems from Excelitas delivers substantial energy savings, enhanced reliability, and has eliminated the maintenance and drying challenges Illert experienced with its previous technology.

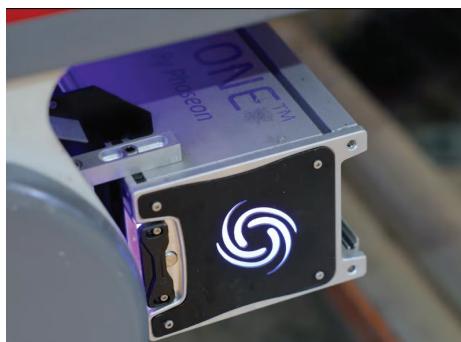
Excelitas is committed to protecting the environment and continually works to reduce the ecological footprint of the products manufactured. When it comes to UV curing, LED technology stands out as a truly sustainable choice. If maintained properly, UV LED curing technologies can deliver up to 85 percent energy savings compared to traditional UV drying systems.

Designed specifically for flexographic printing applications, the Nexus platform offers one of the industry's highest performing UV LED curing solutions. Nexus ONE represents the first generation of this platform, followed by the advanced second generation Nexus II.

<https://www.excelitas.com/product/phoseon-nexus-ii-air-cooled-uv-led-curing-system>



## Phoseon Nexus



- ✓ Higher profits through increased press uptime
- ✓ Proven long lifetime in manufacturing environment
- ✓ Scrap is reduced with increased yields
- ✓ Rugged, field-tested industrial design for narrow web presses
- ✓ Easily replaceable protective glass plate



## About Illert



**ILLERT**

Illert is in the packaging industry with over 160 years of experience. In addition to classic packaging solutions such as self-adhesive labels, the company has established itself particularly in the field of shrink sleeves and customized solutions.

Illert stands for sound and practical packaging solutions and now also offers additional services beyond mere manufacturing, always with the goal of generating added value for the customer. The company focuses on the highest quality standards and the ambition to constantly reaffirm its position as an innovation leader in developing new solutions:

“The future depends on what we do today.”

The result: high-quality packaging solutions that meet even the most specific requirements and address current trends. For example, the topic of sustainability has become increasingly important and is being continuously expanded. In this way, Illert offers customers from a wide range of industries secure, high-quality, and customized products and services along the entire value chain.

Illert Testimonial Video: Advancing Flexographic Printing with UV LED Efficiency and Performance <https://youtu.be/RdrN8vF3wXs>

## Upgrade to UV LED today!

Learn more about upgrading to Phoseon brand UV LED light sources, our financing options and how to contact us at [www.excelitas.com](http://www.excelitas.com).

At Excelitas, we are fully committed to the wellbeing of the environment. We continuously work to reduce the environmental impact of the products that we manufacture. Excelitas LED curing solutions offer consistent and reliable power output, eliminates greenhouse gas, and removes mercury in an entire category of industrial processes. Allow us to contribute to your corporate sustainability objectives TODAY!