

Press NEWS

Heraeus Noblelight opens most modern UV LED module production in Europe

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HERAEUS NOBLELIGHT OPENS MOST MODERN UV LED MODULE PRODUCTION IN EUROPE

New production facility surpasses industrial standards with cutting-edge production processes and clean-room technology.

With the increasing use of UV LED solutions in the industry Heraeus Noblelight, expert in UV LED curing solutions, has opened a production facility in Hanau, Germany, that meets the latest technological requirements. The new state-of-the-art UV LED module production is now open to deliver high-quality and customized solutions.

Heraeus Noblelight invested in a production facility at the Heraeus headquarters in Hanau, which allows access to high-quality in-house materials and also R&D facilities to deliver high-performance product solutions. Within just 84 days, a single storey warehouse was turned into Europe's most modern and largest UV LED module production site. 25 kilometers of cable, 2.2 kilometers of pipelines and 30 tons of steel were installed as well as state-of-the-art technology, including a gold wire bonder. The gold wire bonder, which is used for the electrical contacting of the UV LED chips, is at the heart of the production process. It produces very robust connections, exceeding even industrial standards.

The production was designed based on the latest lean and quality standards, including clean-room technology with class ISO 14644-1 / ISO class 4. With the professional manufacturing infrastructure and the chip-on-board (COB) line, contribute to a high production volume. High performance LED arrays can be produced according to customer requirements. To ensure a high and stable quality of the products process control and KPI data collection have been implemented throughout the fully automated production process.

"Our new UV LED module production features a sophisticated quality concept that achieves a highly efficient flow of materials throughout the whole production. Systems consisting of many hundreds of parts can be produced efficiently and with high quality. This is very important for complex industrial applications," explains Jan Strauß, Head of Production OED at Heraeus Noblelight.

Even chips are qualified in-house, together with the special micro-optics technology they ensure a balanced and uniform UV-output for reliable curing processes.

Heraeus Noblelight produces Semray®, the new Plug & Play system, in the new production facility. The UV LED solution sets new standards in production flexibility and -efficiency. High power micro-optics gather the UV radiation and minimize stray light. In this way the UV curing processes can be achieved with a 30 percent faster production speed and with significantly higher working distance. Thanks to the Plug & Play concept the modules can easily be exchanged within seconds, which reduces cleaning and maintenance costs and also enables an easy upgrade to the latest chip technology or different wavelengths.

Heraeus, the technology group headquartered in Hanau, Germany, is a leading international family-owned company formed in 1851. With expertise, a focus on innovations, operational excellence and an entrepreneurial leadership, we strive to continuously improve the businesses of our customers around the world.

We create high-quality solutions for our customers and strengthen their long-term competitiveness by combining material expertise with technological know-how. Our ideas are focused on important issues such as the environment, energy, health, mobility and industrial applications. Our portfolio ranges from components to coordinated material systems which are used in a wide variety of industries, including the steel, electronics, chemical, automotive and telecommunications industries.

In the 2016 financial year, Heraeus generated revenues without precious metals of €2.0 bn and a total revenue of €21.5 bn. With approximately 12,400 employees worldwide in more than 100 subsidiaries in 38 countries, Heraeus holds a leading position in its global markets.

In 2016, the Foundation for Family Businesses named Heraeus as one of the "Top 10 Family Businesses" in Germany.

Heraeus Noblelight GmbH with its headquarters in Hanau and with subsidiaries in the USA, Great Britain, France and China is one of the technology- and market-leaders in the production of specialty light sources and systems. In 2016, Heraeus Noblelight employed 707 people worldwide. The organization develops, manufactures and markets infrared and ultraviolet emitters, systems and solutions for applications in industrial manufacture, environmental protection, medicine and cosmetics, research, development and analytical measurement techniques.

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Pictures:

Fig. 1



Heraeus Noblelight opens most modern UV LED module production in Europe.

(Photo: Heraeus Noblelight GmbH)

Fig. 2:



The gold wire bonder, which is used for the electrical contacting of the UV LED chips, is at the heart of the production process. It produces very robust connections, exceeding even industrial standards.

(Photo: Heraeus Noblelight GmbH)