

RAYLASE



A global leader in the industry, RAYLASE continues to be known for its development of high-precision laser beam deflection and modulation components. This includes top-quality optical elements, deflection scanning units, and control electronics with built-in software interfaces. RAYLASE has a worldwide market and supports its customers through professional consulting and customized solutions in the packaging, textile, electronics, and automotive industries.

Located near Munich, Germany, RAYLASE AG was founded in 1999 and now has two subsidiaries. After entering into the Chinese market in 2003, the first subsidiary was founded: RAYLASE Laser Technology (Shenzhen) Co., Ltd, based in Shenzhen, China. In August 2016, Dr. Philipp Schön took over as the new CEO and has been working to align the company toward growth and new markets. As a result, Steven Krusemark recently opened the U.S. office in November 2016. Located near Boston, MA, Krusemark is the president and CEO of RAYLASE Laser Technology Inc., the company's second subsidiary.

Customers worldwide have come to rely on the unique performance and reliability of the company's scanning units. The high-precision components form the cornerstone of industrial laser systems for scanning barcodes, marking textiles and surfaces, and welding metal plates and plastics. They also have the ability to cut semiconductor wafers, as well as other metals, plastics, and glass materials. RAYLASE additionally develops and manufactures a wide range of modules and solutions for integration into devices and machines.

Some standard products offered by RAYLASE include 2-axis scanning units, 3-axis scanning modules, 4- and 5-axis solutions, control cards, and software for laser-material processing applications. RAYLASE is a worldwide leader with its innovative 3-axis scanning modules for a variance of working fields and the best spot sizes in the market. The 3-, 4-, and 5-axis technology meets many customer requirements for large processing fields with smaller spot sizes; it allows the user to change the field, the spot size, and the working distance all with the same scanning unit.

RAYLASE also offers solutions for Machine Vision Control (MVC) in conjunction with its deflection units and scanning modules. A growing trend in the laser community, it features the automatic localization of workpieces, the adaptation of the laser process, and an immediate quality inspection. To glimpse into the company's history, the first product manufactured was the TURBOSCAN 10 for 1064 nm and the TURBOSCAN 15 for 10600 nm.

In the last five years, RAYLASE has been a part of the substantial growth of "additive manufacturing" (AM), also known as "rapid prototyping" or "3D printing." As this

concept has progressed from the lab machine to the production of individual hip implants to the mass production line in recent years, RAYLASE has been present for the full evolution.

Today, the additive manufacturing of plastic and metal workpieces is no longer only used for conventionally difficult products; it is widely used in the medical world, the automotive industry, and ever increasingly in the aerospace industry. Naturally existing bionic shapes and structures can now be replicated, which results in sturdy components with low mass, thus making it easier to build automobiles and aircraft. Not only does this increase safety, but it massively reduces pollutant emissions. With this idea in place, RAYLASE is paving the way of the industrial future.

With approximately 120 employees worldwide, RAYLASE demonstrates extremely high standards of quality and accuracy to ensure the most effective performance measures. Most recently, RAYLASE has launched the new control card SP-ICE-3 and soon will expand its digital platform to include a full digital scan head series and a digitalized 3-axis scanning module and MVC. Later in 2017, it will launch its modified AM-MODULE, which is a dedicated solution for the additive-manufacturing market, providing process monitoring and homogeneous power distribution all over the field with the ability to adapt the laser spot size during processing. ■

RAYLASE joined the Laser Institute of America (LIA) in 2016. As a newer member, the company appreciates the ability of the LIA community to offer a high-quality network of companies in the laser-processing industry and the opportunity to attend annual growth and networking events.

For more information about RAYLASE, visit www.raylase.com.



WELCOME NEW CORPORATE MEMBERS

TAKIRON CO., LTD.
Tokyo, Japan

Midwest Engineered Systems
Waukesha, WI

For a complete list of corporate members, visit our corporate directory at www.lia.org/membership.