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New AXIALSCAN-30 DIGITAL laser deflection unit from RAYLASE combines maximum precision with top speed

RAYLASE has enhanced its tried and tested AXIALSCAN-30 laser beam deflection unit with a digitally controlled high-speed Z axis. It is controlled by means of the new digital linear translator module LT-II-15. 20 bit resolution can be achieved with the SL2-100 protocol, while the XY2-100 protocol enables 16 bit resolution. With extremely low noise, high-precision positioning of the laser process is guaranteed. Thanks to digital PWM output stages, the linear translator module offers minimized power loss and minimized heat development. This reduces drift values significantly. It also eliminates the need for cost-intensive water cooling. As a result, the laser deflection unit offers an attractive price-performance ratio plus greatly reduced operating costs.

The AXIALSCAN-30 DIGITAL is extremely flexible to use because fields from 100 mm x 100 mm all the way up to 1,800 mm x 1,800 mm can be processed with the smallest spot diameters. Scribing, cutting, perforating, welding and drilling are all natural applications for the unit, as are micro-material processing, the processing of textiles and moving parts, and 3D applications. The AXIALSCAN-30 DIGITAL also provides an efficient solution for additive manufacturing. With its dynamic responses and the option of tracking error compensation in connection with the SP-ICE-3 control card, this deflection unit meets the highest standards. RAYLASE offers a wide range of lenses, protective glass and deflection mirrors for all standard applications and laser sources.

About RAYLASE

RAYLASE GmbH, founded in 1999 and ISO-certified since 2006, offers high-precision components, control cards and software for the fast deflection and modulation of laser beams. With over 100 employees worldwide, RAYLASE stands for innovative technology, the highest quality standards and customer proximity as a value we put into practice every day.

Our components comprise top-quality optical elements, galvanometer scanners and control electronics with an intuitive software interface. They form the cornerstone of industrial laser systems for scanning printed codes, marking textiles and surfaces, welding metal plates and plastics, and cutting and drilling semiconductor wafers and materials such as metal, plastic or glass. Our current focus markets are additive manufacturing, welding in different industries and various applications such as marking, cutting and perforating, for example, in the packaging industry.

Our customers are companies from a wide range of industries. The electronics, automotive, photovoltaic, textile and packaging industries are using lasers to replace traditional production processes or to implement entirely new ones. In addition, increasing numbers of new industries are discovering the innovative potential of this technology every day. That makes RAYLASE a player in an important global growth market.

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Press Release



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