

PRESS RELEASE

New Z-Axis Generation for Various Laser Applications

The varioSCAN II offers greater flexibility for integrators

Puchheim, October 6, 2021 – SCANLAB GmbH, a leading OEM manufacturer of laser scan solutions, is launching its new z-axis generation varioSCAN II. The innovative system design with new bearing technology now enables the incredibly compact z-axis to be integrated into a laser machine in any mounting orientation. This additional flexibility simplifies the implementation of different laser system concepts for machine builders.



Precise workpiece processing in three dimensions requires highly dynamic positioning of the laser focus along the optical z-axis. With the addition of focusing units, xy scan systems can be easily transformed into 3D beam deflection systems. In this way, the laser focus can be guided along the exact contour of the workpiece being processed.

The varioSCAN product line is ideal for applications requiring f-theta lenses, as well as applications for which these costly lenses are unavailable. In the second case, the focusing system provides a plane focusing surface in addition to z-adjustment of the focus. Besides the processing of three-dimensional surfaces, classic fields of application requiring z-axis manipulation include additive manufacturing (3D printing) and laser cutting. In many of these applications, there is a trend towards higher laser powers, the use of ultrashort pulse lasers and the demand for improved image quality and positioning accuracy.

When developing the new varioSCAN II, the focus was on these exact requirements, with the mechanical design, in particular, being optimized for technical cleanliness. The configuration of the optics is tailored to customer requirements, for example in terms of the z-travel, laser wavelength and beam diameter. The new lens designs, as well as the use of low-absorption optics and premium coatings, open up entirely new possibilities for users to improve their individual laser processes.

Switching to the new varioSCAN II z-axis generation is simple and efficient, as all mechanical and electrical interfaces of the focusing system are designed as a drop-in replacement for the established previous model.

Image material is available to download at
<https://www.scanlab.de/en/news-events/image-library>

About SCANLAB:

With over 35,000 systems produced annually, SCANLAB GmbH is the world-leading and independent OEM manufacturer of scan solutions for deflecting and positioning laser beams in



three dimensions. Its exceptionally fast and precise high-performance galvanometer scanners, scan heads and scan systems are used in industrial materials processing and the electronics, food and beverage industries, as well as biotech and medical technology. For more than 30 years, SCANLAB has secured its international technology leadership through pioneering developments in electronics, mechanics, optics and software, as well as the highest quality standards.

Press contact:

SCANLAB GmbH
Ms. Eva Jubitz
Siemensstr. 2a
82178 Puchheim, Germany

Phone	+49 (0) 89 800 7460
Fax	+49 (0) 89 800 746 199
Email	presse@scanlab.de
Website	www.scanlab.de