

Januar 08

The FOCUSSHIFTER – taking you forward

- **The 3-axis deflection module from RAYLASE AG combines ultra-small spot diameters with flexible focusing in the Z-axis**

The new FOCUSSHIFTER product range sets new standards in laser deflection. Manufactured by RAYLASE AG, a world-leader in ultra-precision components and sub-systems for deflecting, modulating, and controlling laser beams, the 3-axis system boasts ease and flexibility of integration, along with superior long-term stability.

Thanks to the FOCUSSHIFTER, optimally-adjusted galvanometer-scanners direct the laser beam over the working area, while the module adjusts the distance between a movable lens and the focusing lens/es in real time along a third, movable Z-axis.

Compared to conventional linear motors, the highly adaptable technology of the RAYLASE 3-axis deflection subsystem is significantly faster and more accurate in use.

A further feature gives the FOCUSSHIFTER a key advantage over competitors' products: its pre-adjusted, robust construction satisfies CE guidelines, making the dust-resistant and easily-integrated laser system suitable for industrial uses.

The sub-systems for Nd:YAG lasers and CO₂ lasers have outstandingly low drift values and are available for field sizes *) from 100 x 100 mm up to 300 x 300 mm. The units are controlled digitally via the XY2-100 interface, for example with the SP-ICE controller card, or alternatively via analog voltage interfaces.

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RAYLASE AG is a world-wide, trend-setting enterprise that develops modular components and assemblies to deflect and modulate laser beams and sells these internationally. Since its foundation in April 1999, RAYLASE has been facing the challenges in this field and supplying the market with innovative solutions. A global network of experienced specialists, external advisers, research and development facilities guarantee customers a range of products and services to the highest international standards.

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The advanced FOCUSSHIFTER deflection system combines flexible focusing in the Z axis, high deflection speeds, and long-term stability with low drift values. This combination not only lowers system costs, but also makes new applications possible. The pre-focusing linear translator module allows the focal plane to be changed and the work area to be specified. This makes it possible to produce deep engraving on the widest range of materials.

“With the FOCUSSHIFTER, we have succeeded in creating a fully flexible deflection module which is fit for industrial use and combines the right optical design with optimized engineering and narrow tolerances,” comments Erwin Wagner, Development Director at RAYLASE AG, describing the new product. “Following intensive quality testing, we can now offer an optimal laser system which hits the spot in terms of the price/performance ratio and delivers what customers are calling for, e.g. in the area of applications for deep engraving.”

*) The field sizes are defined by the F-theta lens. Other field sizes on request.

FOCUSSHIFTER – an overview:

- Galvo-engineering: easily-adjustable, variable focusing in the Z-axis
- CE conformity: robust and fit for industrial uses
- Customer-specific solutions
- Outstanding price/performance ratio

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