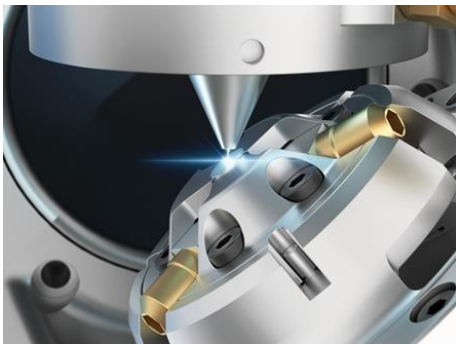


PRESS RELEASE

New Machine Concept Results in Higher Quality at Lower Cost

Intelligent measuring system automatically corrects deviations in laser machining in the μm range, thereby avoiding defective work

Puchheim/Memmingen, Germany, June 25, 2021 – SCANLAB GmbH is supplying the core component for a new machine concept of stoba Customized Machinery for laser drilling in the micrometer range. The processing machine integrates the five-axis precSYS microprocessing system with a femtosecond laser and optical measurement for automatic correction of drilling results. As such, significant increases in productivity are attainable with 24/7 industrial use of the machine.



For industrial production processes with extremely high accuracy requirements, labor costs for quality control are generally high too. If it is possible to reduce measuring procedures, defect parts and machine operating times for readjustment, significant cost savings can be made.

This was precisely the objective of the collaboration between the two companies: To ensure a stable laser machining process for micro-drilling, along

with an automated final product inspection, which also automatically initiates adjustment of the process parameters if necessary.

In the new FocusONE laser machine, SCANLAB's micro-drilling head is connected to an optical measuring system via EtherCAT. The stoba measuring system can inspect drill holes starting from 25 μm in diameter. The integrated software for machine control analyzes the measuring results and automatically adapts the process parameters as required. If, for example, the drilling result shows a trend which indicates a reduction in the diameter of a few μm , the system automatically corrects the drilling diameter based on an individually set threshold. For reliable batch tracing, the entire production process is, of course, comprehensively monitored and recorded.

Greater productivity for large batch sizes

For the user, the machine concept means a higher throughput – thanks to saved set-up times – and more freedom in production planning whilst at the same time a reduced staff requirement. Since these laser machines have a major 'autonomy' with regard to type changes (different drilling patterns) and integrated measuring procedures, one specialist is sufficient for simultaneous operation of several machines.

The greatest benefits can be achieved in large-batch production of cost-intensive workpieces. What's more, traceability of parts produced can easily be ensured. The

initial target markets are therefore medical technology, the automotive sector and aerospace industries.

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 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.

About stoba:

stoba is a group of companies with three technology areas: precision engineering, special machine construction and electrical drive, control and energy storage systems. Founded in 1961 in Backnang, Baden-Württemberg, the company now has more than 1,200 employees at seven locations worldwide (Backnang, Memmingen, Weinstadt, Brno, Charleston, Small Dole, Yantai). stoba stands for quality tested over many years, individual customer-oriented solutions and ambitious visionary innovations for the future. In both 2020 and 2021, the company was awarded the TOP 100 label for its special innovative strength and outstanding innovation successes.

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