

PRESS RELEASE

All-in-One Scan System for Multi-Head Laser Machines

Scan solution tailor-made for additive manufacturing of metallic workpieces

Puchheim, Germany – October 22, 2019 – Leading high-quality OEM scan solution producer SCANLAB GmbH is unveiling a new additive-manufacturing scan head at Germany's formnext 2019 tradeshow in Frankfurt. SCANLAB poured decades of 3D printing expertise into fiberSYS so that sector newcomers, too, can use this all-in-one solution to quickly and easily create high-efficiency laser systems and scalable machine designs. The compact scan system optimizes machine assembly times for integrators and fabrication process times for users.



The 3D printing sector has been utilizing multi-head machines for many years. Productivity for large-area workpieces in particular can be significantly enhanced by combining multiple scan systems with high-overlap image fields. The new system was developed with this key relationship in mind. Its exterior dimensions and beam exit location are optimized to facilitate maximum overlap between adjacent scanners.

With nearly 30 years of experience, SCANLAB is a renowned expert in laser beam positioning for additive manufacturing. This application know-how has been applied to the new fiberSYS as a turn-key system solution that vastly simplifies machine construction. Machine builders can now concentrate completely on laser processes, without being burdened by their tool's optomechanical design complexities.

The new scan system is configured for control via an RTC board, and for deflection of multi-KW single-mode fiber lasers. The sealed dust-proof scan head features a fiber adapter for direct connection of the laser, as well as a process monitoring interface. Ultra-low-drift galvos with digital encoders are regulated via the newest generation of servo electronics. In combination with its optimally designed mirrors, the system delivers exceptional imaging quality and high dynamic performance. Its pre-focus configuration with integrated z axis enables scan head usage without an F-Theta objective, thus reducing thermal drift.

The new metal-based additive manufacturing scan solution is orderable starting Q2 2020. SCANLAB will issue design recommendations for optimal usage of multiple scan heads, but this is also an open, modular system platform flexibly adaptable to customer-specific requirements.

Print-quality images can be downloaded at
<https://www.scanlab.de/en/news-events/image-library>

Current Tradeshow Calendar:
formnext 2019 from November 19 – 22, 2019 in Frankfurt, Germany, **Hall 12.0 – Booth B41.**

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 find application in industrial materials processing and the electronics, food and beverage industries, as well as biotech and medical technology. For over 25 years, SCANLAB has secured its international technology leadership through pioneering developments in electronics, mechanics, optics and software, as well as the highest quality standards.

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