

PRESS RELEASE

## Flexible, Cost-Effective Solution for Laser Welding

Blackbird Robotersysteme introduces new 2D scan system

**Garching / Puchheim, Germany – May 31, 2016 – Remote laser welding solutions expert Blackbird Robotersysteme GmbH – a SCANLAB AG subsidiary – is introducing a new 2D scan system at LASYS 2016 in Stuttgart, Germany. The intelliSCAN FT, with a 30-mm aperture, is specifically designed for welding applications and integration into robot and gantry systems. With full industrial suitability, this scan system is ideal for welding flat components and handles laser powers up to 8 kW.**



Cost pressure in every industrial sector forces manufacturers to continuously reassess their production processes. Resulting economic efficiencies are ideally combined with process safety and quality. That is precisely the approach of Blackbird's new scan system. Optimized for fiber-coupled disc or fiber lasers with powers up to 8 kW, the intelliSCAN FT positions the beam quickly and precisely for welding of 2D contours. The scan head's compact design, and optionally straight or angled collimator implementations (90° vs. 180° collimator)

facilitate straightforward integration in equipment where space is tight. This pre-integrated system is a cost-effective solution for tasks such as welding of batteries in the Automotive sector or welding contacts in electronic component manufacturing.

### **Remarkably flexible, smart and user friendly**

At the system's core are field-proven SCANLAB galvanometer drives with mirrors specially optimized for welding applications. Individual image field calibration and the collimator ring's Z-position adjuster enable exceptionally high precision and easy exchangeability of systems. This is supplemented by automatic self-calibration (ASC), which suppresses drift effects to ensure highest process quality in industrial series production.

The corresponding ScanControlUnit provides diverse bus options for communication and safety, as well as interfaces for image processing systems. Its very user-friendly, intuitive software makes it an optimal solution packet for 2D welding applications.

Comprehensive drawing functions and CAD interfaces allow easy set up and optimization of all 2D scan contours for processing. And you can freely program parameters such as laser power interpolation along 2D contours, or oscillation of the laser beam. Delivery includes not only the system's components, but also introductory training and installation support to ensure timely deployment.

"With this new product, customers get a cost-effective, robust system solution for their 2D welding applications that they can quickly and efficiently integrate into industrial welding systems," explains Dr.-Ing. Wolfgang Vogl, CEO of Blackbird Robotersysteme GmbH.

**Print-quality images** can be downloaded at  
[www.scanlab.de/en/news-events/image-library](http://www.scanlab.de/en/news-events/image-library).

**Current tradeshow calendar:**

**LASYS 2016** from May 31 to June 2, 2016 in Stuttgart, Germany – You can visit all SCANLAB Group companies in **Hall 4: SCANLAB AG - Booth C 35**, Blackbird Robotersysteme GmbH - **Booth D 33**, Next Scan Technology - **Booth B 72**.

**About SCANLAB:**

With over 20,000 systems produced annually, SCANLAB AG 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 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

**About Blackbird Robotics:**

As a subsidiary of SCANLAB, Blackbird Robotersysteme GmbH offers solutions for remote laser welding with scan optics. These solutions enable seamless integration of mirror-based beam deflection units into industrial manufacturing systems, particularly robot cells. The company's core competence is development of high-performance control technology and intuitive user software. In combination with 2D and 3D optics from SCANLAB, Blackbird provides a broad array of pre-integrated solutions for mechanical and plant engineering, automotive production and numerous other manufacturing industries around the world

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