

OR LASER Takes Its Metal AM Offering to the Next Level

At formnext 2017, OR LASER is introducing its new hybrid metal additive and subtractive manufacturing platform, the ORLAS CREATOR Hybrid and unveils its new cloud manufacturing services.

Frankfurt, Germany; 15th November, 2017: formnext powered by TCT is happening right now in Frankfurt when the great and the good of the 3D printing and Additive Manufacturing (AM) industry congregate in Hall 3 at the city's Messe. Traditionally the latest AM developments are unveiled at formnext, and this year promises to be bigger and better than years gone by. OR LASER impressed the AM industry in 2016 with the introduction of the ORLAS CREATOR, an accessible direct metal AM system, and through 2017 has started shipping the first platforms. At this year's formnext, OR LASER is taking things to the next level.

At booth C20 in Hall 3.0 OR LASER is proud to unveil its latest metal AM development to the world for the first time — the ORLAS CREATOR hybrid 3D printing and milling machine.

The ORLAS CREATOR hybrid brings together the benefits of both additive manufacturing and subtractive manufacturing within a single platform to offer a comprehensive manufacturing solution. Simply put, the advantages of 3D printing complex metal components using the direct AM powder melting process in combination with the OR LASER's advanced milling capabilities for precision finishing ensure that the ORLAS CREATOR hybrid is a compelling manufacturing solution at an accessible price point for SMEs.

Moreover, the ORLAS CREATOR hybrid goes beyond the capabilities of classical milling/machining, whereby structures and surfaces that are not normally reachable (such as inside contours, undercuts or hidden cooling channels) can be milled effectively. The ORLAS CREATOR Hybrid offers all of the outstanding 3D printing features of the classic CREATOR, including the full laser power of 250W at a spot of 40µm; laser processing speeds of 3500 mm/s; and a build platform 110 mm (diameter) with a maximum Z axis of 100 mm.

The other big news from OR LASER at this year's formnext comes with the announcement and launch of the company's new cloud manufacturing services. This intelligent and progressive service will add value for any ORLAS CREATOR user and their industrial operations. As Industry 4.0 gathers momentum and digital data becomes increasingly fundamental AM users need to be able to seamlessly join this revolution. This is precisely the impetus behind the development of OR LASER's cloud manufacturing capabilities, which offers users a continuous, connected interface with the machines and their data. With multiple functions, this cloud manufacturing service can monitor machines in real time as well as provide preventative maintenance reports that avoid downtime; provide monitoring and analysis of multiple systems from one location; and provide analytical insight for industrial applications based on the machines parameters and the materials being used.

OR LASER is also using formnext as the platform to launch another new hardware system — the ORLAS CUBE — which is a timely addition to the OR LASER product portfolio offering an optimal solution for demanding laser material processing tasks. The ORLAS CUBE is a flexible and fully enclosed system that can fulfil the most challenging industrial tasks courtesy of its high-quality and extremely precise axis system combined with a stable and extremely durable granite processing table. The CUBE system's flexibility stems from the fact that it can be utilized with all laser sources and processing heads from OR LASER, which means that it can be deployed as a welding system or as a compact cutting system for a multitude of possible applications, including powder cladding applications. The system is controlled by a modern 10.2 inch touch display, while machining strategies can be generated directly with the system using the built-in ORLAS SUITE CAM software. Thanks to the closed machining case, the system fulfills all requirements for laser safety and can therefore be used in a wide range of environmental conditions. The

processing case is removable or can be moved to the back of the system for crane loading, which can accommodate the processing of large or palletized workpieces.

The ORLAS CUBE is the new all-rounder from OR LASER. High precision, safety and flexibility are its key strengths and these will be on show for the first time all this week.

A press conference will be held 16 November, Messe Frankfurt, Hall 3.0, Booth C-20 at 12.15pm.

About OR LASER

Producer of Industrial Laser Systems

Since founding O.R. Lasertechnologie GmbH in September 1997, Yhushua Resnik and Uri Resnik have steadfastly pursued the goal of developing new applications for lasers in materials processing and innovative laser technologies for a wide range of customers in the metal- and plastics-processing industries.

The company's comprehensive portfolio of products is the outcome of unceasing efforts to build on and apply many years of practical experience in the fields of laser welding, cutting, marking /engraving, cladding and 3D printing.

Development and manufacture of laser equipment in Germany for companies that include Siemens, Bosch, Geberit, Freudenberg, and General Electric. Solutions for the automotive and aerospace, mechanical engineering, electrical, medical, plastics, and tool- and mold making industries

Managing directors: Yhushua Resnik and Uri Resnik

Own branches: 6

International distributors and customer service providers: 30

Employees in Germany: 70

RD department: 20 staff

Market share: 25% worldwide across all relevant industries

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