



Formnext 2020 trade show

9 November 2020

Accelerating the establishment of industrial additive manufacturing systems

Munich. Formnext, the leading industry platform for additive manufacturing and industrial 3D printing, will be held for the sixth time from 10 to 12 November 2020. At the exhibition and trade fair, TÜV SÜD will showcase its additive manufacturing portfolio and present a talk given by Gregor Reischle on “Additive Manufacturing reaches state of the art – It’s time to save costs & time”. New services in TÜV SÜD’s portfolio include certification of production sites, workflows and production processes as well as combined audits. The service provider now also offers certifications and approvals in regulated industries, digitalisation services and training. Due to the COVID-19 pandemic, the event will go digital and take place wholly virtually.

“Over the past three years our team has developed a standardised process for the implementation of additive manufacturing (AM) technologies and methods, transforming industrial AM into a state-of-the-art method which saves time and money”, says Gregor Reischle, Head of Additive Manufacturing at TÜV SÜD. This is a marked contrast to the first 15 years of this innovative technology, during which cost budgeting for AM implementation proved next to impossible. At that time, approaches were based more on trial and error than on a systematic and methodological procedure. A high level of expertise was required and the realisation of applications was often lengthy and costly. Gregor Reischle explains, “In addition, until recently there were no guidelines on how to use the existing technologies, which sometimes proved detrimental to the safety and quality of AM parts. This gap has now been closed by tailored normative specifications.” Some of those specifications which have already been or will soon be published are DIN SPEC 17071, ISO/ASTM CD 52920 (in preparation), ISO/ASTM WD 52930 (in development) and ISO/ASTM 52901:2017. They help to ensure that products that come out of 3D printers in future will be safe, cost-effective, high-quality and sustainable.

First globally certified 3D printing build process: LEHVOSS / Ultimaker

The first “Reproducible AM Build Process” certificate issued by TÜV SÜD confirms the safety and reliability of a combination of hardware and material. Certification was commissioned by the LEHVOSS Group and Ultimaker, with the industrialisation and scalability of LUVOCOM® 3F filament printing as its

objective. It covered various aspects, including the material properties and the production process using the Ultimaker S5 Pro Bundle 3D printer system. The companies demonstrated that they have established and maintained reproducible processes including reliable quality assurance. LEHVOSS is a trading company for chemical and mineral specialities. Ultimaker manufactures 3D printers and supplies the associated software. TÜV SÜD's innovative certification solution covers aspects including mechanical characteristics, dimensional and geometrical reproducibility and emissions during production. The main advantages of the certified AM build process are seen by technology users, who benefit from cost and time savings when setting up quality-focused production sites.

First combined audit: Sauber Engineering

TÜV SÜD performed its first combined audit at Sauber Engineering AG, to which it issued ISO 9001 and DIN SPEC 17071 certificates for metal and plastics production. The integrated certification process confirms that the company both maintains effective management systems and makes products of mature quality. The company specialises in the development and manufacturing of products for motor-racing and Formula 1.

Checklist for on-demand medical devices

At present, some national borders have again been closed due to the persistence of the COVID-19 pandemic disrupting supply chains, some of them important, and even including those for medical devices. Local on-demand 3D printing presents alternatives. TÜV SÜD has developed checklists assisting manufacturers to achieve compliance with high quality requirements and legal regulations.

TÜV SÜD talk and participation in discussion round

- "Additive Manufacturing reaches state of the art – It's time to save costs & time"
Expert Session given by Gregor Reischle on Tuesday 10 November at 4:30 pm (online).
- "Additive Manufacturing in Medtech: Challenges and Regulatory Requirements"
Main Stage online discussion on Thursday 12 November at 10:45 am with Gregor Reischle, Marc Platthaus (DeviceMed), Stefan Bollinger (be-on-quality GmbH), Prof. Dr. Peter Pott (Universität Stuttgart) and Prof. Johannes Schleifenbaum (ACAM – Aachen Center for Additive Manufacturing)

About Formnext

Combining a trade show and conference, Formnext is one of the most important events in the AM industry. This year it provides a platform for online exchange concerning new products, processes and business models for decentralised and diversified supply chains and crisis-proof production.

For further information about Formnext and to register, visit formnext.mesago.com/events/de.html.

More information by and about TÜV SÜD at:

<https://www.tuvsud.com/en/industries/manufacturing/machinery-and-robotics/additive-manufacturing>.

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Founded in 1866 as a steam boiler inspection association, the TÜV SÜD Group has evolved into a global enterprise. More than 24,000 employees work at over 1.000 locations in about 50 countries to continually improve technology, systems and expertise. They contribute significantly to making technical innovations such as Industry 4.0, autonomous driving and renewable energy safe and reliable. www.tuv-sud.com