

Press Release



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TÜV SÜD at the SEMICON Europa 2025

October 28, 2025

Safety, sustainability and efficiency for the semiconductor industry

Munich. The semiconductor industry is under enormous pressure to innovate and reduce costs while facing the challenge of meeting stringent safety, quality, and sustainability requirements. From 18 to 21 November, TÜV SÜD will be presenting its comprehensive service portfolio for manufacturers of machinery and components at SEMICON Europa 2025 in Munich. The company supports the entire value chain, from development and operation to sustainable orientation. Stand no.: C2452.

Highest standards in a complex industry

“In addition to common industry standards, the semiconductor industry also uses its own industry-specific safety guidelines, which machine manufacturers must take into account,” explains Fabian Bartholomäus, Team Leader SEMI Testing & Certification at TÜV SÜD. “Every machine and every component must be tested with the utmost precision, because even the slightest deviation can have significant economic consequences. We help our customers to implement these requirements efficiently and reliably.” In addition to classic safety and functional tests, the company offers a variety of other testing services required by end customers. The aim is to detect errors at an early stage, save time and costs, and shorten time-to-market.

Comprehensive safety and compliance services for the semiconductor industry

At SEMICON, TÜV SÜD will present its range of safety and compliance services for the industry. Services include “Testing & Certification according to SEMI guidelines, industry standards and national requirements, e.g. EU directives or OSHA requirements” as well as “Technical Dialogue & Training” for teams. Manufacturers are supported in both the development of new tools and in the safe operation of existing machines.

Expertise for specific challenges

TÜV SÜD also offers tailor-made solutions for specific requirements:

- Tracer gas testing according to SEMI S6

- Cybersecurity assessment and certification for networked plants and production systems
- Support for sustainability and energy efficiency goals, including in accordance with SEMI S23

Global challenges – local solutions

“We are currently seeing enormous investments in new manufacturing capacity worldwide – from Asia to Europe to North America,” explains Fabian Bartholomäus. “Everywhere, manufacturers are facing the same questions: How can opportunities be exploited through growth and technological progress without failing due to regulatory or market-specific hurdles? Our global presence enables us to address this issue precisely, providing local expertise and global consistency. This is a decisive factor in ensuring international competitiveness.” Another focus is energy efficiency. New guidelines such as SEMI S23 set standards for monitoring and reducing the energy consumption of manufacturing facilities. TÜV SÜD supports manufacturers and operators in complying with these requirements while reducing their operating costs.

Sustainability becomes a competitive factor

Sustainability is also playing an increasingly important role in the semiconductor industry. Companies are increasingly required to disclose the environmental impact of their products transparently. Significant CO₂ reductions can be achieved with the help of the tracer gas test. In addition, compliance with industry-specific standards is becoming increasingly important.

Holistic and future-oriented solutions for the semiconductor industry

TÜV SÜD offers testing, certification and risk analysis services throughout the entire life cycle of machinery. The company supports its customers with an interdisciplinary team and a global network, from development and commissioning to decontamination at the end of use. As a testing service provider offering holistic and forward-looking solutions, TÜV SÜD combines regulatory requirements, safety, efficiency and sustainability.

About SEMICON Europa

SEMICON Europa is the leading trade fair for the European semiconductor and microelectronics industry. Every year, international market leaders, suppliers, start-ups, researchers and decision-makers from across the entire value chain – including design, manufacturing, materials and equipment suppliers – meet in Munich. The trade fair is considered a central platform for innovation, networking, and information exchange on current trends such as artificial intelligence, energy efficiency, sustainability and the digitalisation of production.

Further information on TÜV SÜD's services in the semiconductor sector can be found at:

- [Semiconductor Testing](#)
- [Semiconductor Equipment Testing](#)

Note for editorial staff: The press release is available on the Internet at:

tuvsud.com/newsroom.

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Founded in 1866 as a steam boiler inspection association, the TÜV SÜD Group has evolved into a global enterprise. Around 30,000 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. tuvsud.com