

PRESS RELEASE

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A wealth of inspiration for innovative machine and plant manufacturers

EMO Hannover 2025 showcasing production technology for the modern factory

Frankfurt am Main, 29 April 2025. - From ice cream machines to wheel loaders: the spectrum of engineering products is as broad as the market itself. However, nearly all producers are facing the same major challenges: modernizing production, developing strategies to combat the shortage of skilled workers, implementing solutions for a more circular economy and improved resource efficiency. Under the banner of "Innovate Manufacturing", EMO Hannover 2025, the world's leading trade fair for production technology, will be offering engineering companies a wide range of inspiring innovations and solutions. Furthermore, companies will also be able to find suitable partners at the EMO who can provide expert support for their modernization processes. This saves time and minimizes investment risks.

Innovate Manufacturing.

www.emo-hannover.de

Embracing new technologies

It is now crucial for the sector as a whole – and not just small and medium-sized enterprises – to embrace new technologies and solutions. Ideally, these should be scalable, have already proven their effectiveness, and raise efficiency levels right from the outset. EMO offers direct access to the leading manufacturers and suppliers of customized production solutions in engineering, and showcases advances in metalworking. Visitors can experience machine tools in action at the fair. They can discuss and confer with industry experts and specialists on the trade fair stands as well as in presentations, workshops and live demonstrations.

"The EMO is unique among the trade fairs in presenting the entire metalworking value chain – from machine tools, production systems and additive processes through to precision tools, automation, metrology, quality assurance, software and accessories," emphasizes Dr. Markus Heering, Executive Director of EMO organizer VDW (German Machine Tool Builders' Association). The EMO motto "Innovate Manufacturing." is therefore more than just a slogan, says Heering, it is a call to suppliers and users to be bold in exploiting the possibilities opened up by the new technologies.

Digitalization is revolutionizing engineering

This applies in particular to the megatrends of automation, digitalization and artificial intelligence. Advancing digitalization is revolutionizing engineering, the VDW believes. A decisive factor here is the networking of all machines in the process chain. The opportunity to experience this live is what makes EMO unique. Machine tools now come pre-equipped with extensive sensor and monitoring systems. Exhibitors need to dispel trade visitors' concerns about the possible loss of data sovereignty or the threat of cyberattacks. The

exhibiting companies believe it is important to facilitate the transition to data-driven production. Systems that run exclusively on or in individual machines and within the customer's own network will be on display. It is entirely up to users to decide whether they allow the exchange of data – for example, with external parties, such as the machine manufacturer or partners in or outside the value chain, either now or at some point in the future. Genuine added value is created when maintenance cycles can be predicted, downtimes can be minimized, or data for documenting the carbon footprint within the supply chain can be issued at the touch of a button.

Machine learning, a sub-area of artificial intelligence, opens up a new dimension of self-organizing production. This allows companies to respond more flexibly to changes in the market and to individual customer demands. It is a crucial prerequisite for maintaining innovativity and competitiveness in the long term.

Addressing skilled labor shortages

Digitalization and automation of production can be combined with strategies aimed at countering the shortage of skilled workers in engineering. Automated assistance systems, for instance, can support machine operators while simultaneously increasing productivity, quality and efficiency. In addition to technical solutions, EMO is also addressing the question of how the training programs for the next generation of skilled workers can best be adapted to meet the latest requirements regarding technological development, digitalization and artificial intelligence.

The changes affecting engineering also include sustainability. More and more countries are taking measures to protect the climate and invest in the green

transformation of their industry. In production, there is a stronger focus on consuming resources more sparingly, using energy-efficient machines and production processes, and setting up circular economies for products and materials. As the VDW reports, immensely high visitor interest in this topic was already apparent at EMO 2023. The Sustainability Area at EMO 2025 will provide a focal point for modern solutions aimed at bringing about the sustainable production of the future and at answering visitors' questions. This is a topic which is clearly at the top of the agenda when it comes to the modernization of production.

Author: Cornelia Gewiehs

Caption

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Mechanical and plant engineering is one of the largest customers of production technology worldwide. Accordingly, many of the more than 1,400 EMO exhibitors will be addressing this sector with their machines, solutions and services.

Source: EMO 2023/VDW

EMO Hannover 2025 – World's Leading Trade Fair for Production Technology

Under the banner *Innovate Manufacturing*, EMO is set to showcase the entire metalworking value chain from 22 to 26 September 2025. This includes cutting and forming machine tools, manufacturing systems, precision tools, automated material handling, computer technology, industrial electronics and accessories. The EMO is held every two years, rotating between Hannover-Hanover–Milan. The event is celebrating its 50th anniversary in 2025. The 2023 EMO drew more than 1,800 exhibitors and just over 92,000 visitors from all over the world to Hanover. Standing for **Innovation**, EMO is the number one platform for metalworking: It is a driving force

and global leader when it comes to new products, manufacturing solutions and services. **Internationality:** International market leaders from 45 countries exhibit at EMO. The EMO trade visitors come from around 140 countries and represent all the major industries, including machine and plant construction, the automotive industry and parts suppliers, aerospace, precision engineering and optics, shipbuilding, medical engineering, tool and mold making, steel and light-weight construction. **Inspiration:** No other trade fair presents the full breadth and depth of international manufacturing technology like EMO. Highly experienced exhibitors and visitors come together to discuss the megatrends in manufacturing, share their views with international production researchers, and develop solutions to existing challenges. **The future of metalworking:** The quest to *Innovate Manufacturing* remains a constant challenge for industry. EMO highlights the limitless possibilities of industrial production.

Pictures:

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