

# STAGE SET FOR EMO HANNOVER 2025

Excitement is building ahead of EMO Hannover 2025, the world's leading trade fair for production technology, scheduled for September 22–26. Organized by the VDW (German Machine Tool Builders' Association), the event promises to be a global hub for innovation, cooperation, and insight into the future of manufacturing.

Speaking at the media preview in Frankfurt on July 10–11, Dr. Markus Heering, Executive Director of the VDW, emphasized that EMO 2025 will be the most important international platform for dialogue and innovation in production technology.

This year's themes reflect megatrends shaping the industry: automation, digitalization, artificial intelligence (AI), and sustainability. In fast-

paced 90-second pitches, 26 exhibitors previewed cutting-edge innovations, including intelligent robots, autonomous transport systems, and energy-efficient retrofitting for machines. The event also explored how long-lasting machines and process optimization contribute to a lower CO<sub>2</sub> footprint. A visit to the ETA model factory in Darmstadt underlined the focus on climate-neutral manufacturing.

AI took center stage in discussions on the future of smart production. Solutions such as machines with intuitive controls and chatbot integrations aim to address skills shortages and streamline operations. During a panel discussion, experts Sebastian Heinz, founder and CEO of



Dr. Markus Heering

Statworxs, a consulting and development company for data and AI from Frankfurt am Main, and Prof. Michael Zäh from the Chair of Machine Tools and Production Engineering at the Technical University of Munich stressed the urgency for European manufacturers—particularly SMEs—to accelerate AI adoption or risk falling behind global competitors. "Not using AI is not an option," warned Prof. Zäh.

Canada, the official partner country for EMO 2025, is set to make a strong impression. Jayson Myers, CEO of NGen (Next Generation Manufacturing Canada), highlighted the country's integrated approach to advanced manufacturing.

Representing a network of over 11,000 members and 5,000 tech providers, NGen has invested in 250 projects since 2018—resulting in over \$1 billion in project investments and \$7.5 billion in revenue. Myers summed it up succinctly: "AI is part of the solution, not the whole solution," pointing also to innovations in IoT, robotics, biotech, and cybersecurity.

As EMO Hannover 2025 draws near, Heering remains confident. "EMO sets the right topics," he said. "And it provides the platform for forging new global connections and driving forward the future of production."



Watch the video here: <https://bit.ly/EMO25-M4>

## Siemens to showcase CNC, AI innovations at EMO 2025



Siemens is set to make a major impact at EMO 2025 in Hannover, taking place from September 22 to 26, with a powerful showcase of technologies that are shaping the next era of manufacturing. Under the guiding theme "Shape the future of the shopfloor. Now," the company will present pioneering solutions aimed at boosting precision, efficiency, and sustainability across production environments.

One of the standout highlights is the Sinumerik Machine Tool Robot, a groundbreaking innovation that redefines CNC machining. By combining intelligent control systems with advanced robotics, this new solution brings machine tool-like capabilities to industrial robots—enabling them to handle even tough materials like steel with exceptional precision. The result: enhanced productivity and a new benchmark in machining accuracy.

Siemens will also spotlight how AI-driven digital networking is transforming manufacturing. Through real-time data integration and intelligent automation, this technology accelerates the development of high-performance, safe components, cuts production costs, and supports sustainable practices throughout the entire product lifecycle.

Visitors can experience these innovations firsthand and learn more about Siemens' comprehensive portfolio in machine control and digital manufacturing at Stand F30 in Hall 6.



Watch the video here: <https://bit.ly/Siemens-EMO25>

## ZOLLER to showcase Smart Factory innovations at EMO 2025



ZOLLER GmbH & Co. KG, the family-owned technology leader based in Pleidelsheim, will present its complete range of tool presetting, measuring, and inspection systems at EMO 2025 in Hannover. As a full-range provider, ZOLLER is positioning itself as a key enabler of digital, automated, and efficient tool management for metal-cutting production.

The company's solutions cover the entire tool lifecycle — from planning and storage to assembly, presetting, use on CNC machines, and disassembly. Central to this ecosystem is the TMS Tool Management Solutions software, integrated with intelligent storage systems like the »toolOrganizer« and »keeper«. Tools are processed on ergonomic workbenches, heat-shrunk with energy-efficient »powerShrink« systems, balanced with »toolBalancer« devices, and measured using advanced »smile« or »venturion« presetting machines and are automatically fed into the magazines of the CNC machines with the help of »coraLogistic«, »coraMeasure LG«, »loadBox«, »roboBox« or »coraMachineLoad« automation systems.

At all stations, tool data is captured and managed digitally via barcodes, QR codes, or »idChip« and »zidCode« technologies, allowing secure, paperless communication with CNC controls like Siemens and FANUC. The new »zidCode 4.0« and »z.DMI« systems enable seamless data exchange, minimizing setup time and preventing errors.

Through modular automation and smart software like webTMS, ZOLLER offers scalable solutions tailored to the needs of digital manufacturing. Its MYZOLLER customer portal enhances service, product management, and support through a streamlined online platform.

By combining hardware, software, and automation, ZOLLER is paving the way to the Smart Factory, ensuring precision, transparency, and efficiency across all stages of tool usage.



Watch the video here: <https://bit.ly/ZOLLER-EMO25>

# HANS BECKHOFF RECEIVES RUDOLF DIESEL MEDAL

Hans Beckhoff, Managing Director and founder of Beckhoff Automation, a technology company headquartered in Verl, has been honoured with the widely acclaimed Rudolf Diesel Medal 2025. Hans Beckhoff received this prestigious award in the Most Successful Innovation Achievement category at the award ceremony held at the MAN Museum in Augsburg on July 10. This medal honours him as a visionary pioneer in automation technology.

The Rudolf Diesel Medal is one of the most renowned and long-standing awards for pioneering achievement in Europe. It recognizes the significance of the culture of innovation in Germany and honours inventiveness and entrepreneurial courage. It is awarded by the German Institute for Inventions (Deutsche Institut für Erfindungswesen, D.I.E. e.V.) and honours people and companies that have made a significant contribution to society by improving quality of life, prosperity, and preserving the culture of innovation in Germany, thus inspiring the next generation of engineers and entrepreneurs.

The Rudolf Diesel Board of Trustees, which consists of around 60 leading technology directors and managing directors of medium-sized global market leaders, has recognized Hans Beckhoff as a visionary pioneer who embodies the values of the Rudolf Diesel Medal through his corporate principles and strong social engagement. The jury honoured Hans Beckhoff in the Most Successful Innovation Achievement category. This category focuses on innovative prowess and the company's overall impact on the economy.

Prof. Dr. Gunther Herr, Professor of Comprehensive Business Innovation Strategies at Steinbeis University in Berlin and scientific advisor to the Diesel Medal Board of Trustees, attributes these 45 years of success to Beckhoff's technological and entrepreneurial foresight, his



Hans Beckhoff receives Rudolf Diesel Medal 2025

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innovative, pioneering thinking, and his unstinting creativeness.

Beckhoff technology is characterized by software-based rather than hardware-based control technology, integration of IT and automation technology, ultra-fast and reliable communication technology, highly optimized drive technology and deep embedding of AI functionality. It is successfully used by many

customers worldwide to control the latest manufacturing machinery, buildings, technical processes, scientific experiments and big stage shows to name a few.

In his acceptance speech at the award ceremony, Hans Beckhoff said: "The Rudolf Diesel Medal that has been given to me today is, of course, not for me alone – it has been awarded to our entire

company. Over 600 developers and product managers work in development every day, looking to create new advanced automation products. Over 2,000 employees worldwide work closely with customers, support our users, and listen to their wishes and requirements. Our customers have therefore also contributed to our success as an inventing company, through their feedback on our products, and through their own ideas. This collaborative partnership sets us apart and brings us great joy."



Read the news here: <https://bit.ly/hans-beckhoff>

## Renishaw launches new gauging system



Renishaw has introduced the Equator-X 500, a dual-method gauging system designed to enhance shop floor process control. This latest innovation enables manufacturers to choose between Absolute and Compare measurement modes, effectively offering two systems in one to meet diverse production needs.

Tailored for environments with high product variation and frequent design changes, the Equator-X 500 delivers speed, flexibility, and ease of use, aligning with fast-paced machining capabilities. Key benefits include increased throughput, in-process verification, and adaptability—all within a single device.

In Absolute mode, the system measures parts at scanning speeds up to 250 mm/s, ideal for small to medium batches, first-off verification, and even 100% inspection near the machine. For high-volume production, Compare mode offers scanning speeds up to 500 mm/s, prioritizing cycle time while handling varying thermal conditions.

Built on a hexapod structure, the Equator-X 500 features carbon fibre metrology struts, linear motor drives, and the SP25M scanning probe, ensuring precision without sacrificing speed. It can function as a standalone unit or be integrated into automated cells, making it suitable for a wide range of production setups.

Renishaw's MODUS IM software powers the system with an intuitive interface and advanced tools for programming, reporting, and operation—streamlining tasks and improving user experience.

The Equator-X 500 redefines shop floor metrology by combining versatility, speed, and accuracy in one adaptable platform.



Watch the video here: <https://bit.ly/Renishaw-EMO25>



## Schaeffler to showcase innovations for machine tools at EMO 2025

At EMO 2025, Schaeffler will present an expanded portfolio of bearing and drive technologies tailored to key trends in the machine tool industry: automation, digitalization, and sustainability.

**Advanced Linear Guidance Systems:** The new KLLT four-row monorail guidance systems address the need for low-maintenance automation. Designed for use beyond the machining envelope, they offer high precision and adaptability to sub-structures with minor shape errors, making them ideal for modern machine peripherals.

**Rotary Bearings for Automation:** Schaeffler introduces the YRTA series, a further development of the proven YRTC line. These rotary axis bearings, optimized for automation, feature improved needle cages and manufacturing processes that deliver enhanced rigidity, longevity, and reduced maintenance.

**Gear-Integrated Bearings for Sustainability:** To streamline design and assembly in rotary tables, Schaeffler now offers YRTA and YRTA bearings with integrated gear teeth (spur or helical), reducing component count and complexity. These

YRTCG and YRTAG versions maintain compatibility with AMOSIN angle measurement systems.

**Expanded Roller Screw Drive Portfolio:** Following the integration of Ewellix, Schaeffler's linear motion offerings now include RGT ground roller screw drives in sizes 8 to 240 mm, supporting loads up to 4000 kN. These drives suit demanding applications like thread rolling, broaching, and milling.

**Reliable Solutions for Short-Stroke Applications:** For spindle applications with limited movement, Schaeffler offers angular contact bearings (ZKLN, ZKLF, and DKFLA series) with ceramic rolling elements. These prevent false brinelling and extend grease life—enhancing uptime and reliability. Visit Schaeffler at Hall 6, Booth I46 during EMO 2025 to explore solutions engineered for the future of machine tools.



Watch the video here: <https://bit.ly/Schaeffler-EMO25>