

TOX® at the automatica 2025

Precision and process reliability for smart production

At automatica 2025 in Munich, TOX® will be showcasing new solutions for networked production in Hall A6, Stand 534. The focus will be on systems for process monitoring, electromechanical drives and compact assembly workstations - which can be experienced live at several exhibits.

Focus on production: data, control and efficiency

With the TOX® PMO (Process Monitor) and EPW 600 systems, TOX® is bringing new solutions for the end-to-end monitoring of production processes to the trade fair. Both systems enable precise recording and evaluation of process data in real time. They provide the basis for predictive maintenance and contribute to increasing process reliability and product quality. Thanks to their modular structure, the monitoring systems can be integrated into new systems as well as used to retrofit existing systems.

Live at the trade fair: Drive solutions and manual workstations

With the TOX® ElectricDrive Core, TOX® is presenting a fully integrated drive system that not only provides high force density but also all relevant functions for process monitoring and data communication. The combination of servo drive, controller, EdgeUnit and software enables seamless and flexible connection to industrial networks using standardized protocols such as OPC UA or MQTT. The system is supplemented by a scalable safety concept that ranges from STO and a patented safety brake concept to SLS and PLe - each adapted to the customer's requirements. The system can be seen in two versions at automatica - as a safety exhibit and as a compact demo kit to illustrate the control system and function.

Another highlight is the TOX® FlexPress Compact

The compact manual workstation is suitable for a variety of manual assembly processes and is equipped with an electromechanical drive and integrated sensors. Processes can be intuitively controlled, visualized and evaluated via the UDI panel. The FlexPress impresses with its space-saving construction, its ergonomic design and its suitability for flexible tool inserts, for example for clinching, riveting or press-fitting.

Technology you can touch: PMO exhibit shows practical application

A special exhibit for TOX® process monitoring gives visitors a practical insight into how the system works. The solution is designed for use with various TOX® drive and press systems and allows key quality indicators to be recorded and analyzed. This allows components to be fully

documented and processes to be adapted in a targeted manner - a key component for implementing intelligent production strategies.

TOX® at automatica 2025:

June 24-27, 2025

Hall A6, Stand 534

2,802 characters incl. spaces

Meta title: TOX® at automatica 2025: New systems for networked production

Meta description: At automatica 2025, TOX® will be showcasing solutions for smart production processes - including process monitoring, electric drives and compact assembly workstations.

Keywords: TOX®, automatica 2025, process monitoring, PMO, EPW 600, ElectricDrive Core, FlexPress Compact, assembly workstation, UDI panel, predictive maintenance, Industry 4.0, OPC UA, MQTT, smart manufacturing, joining processes

Captions:

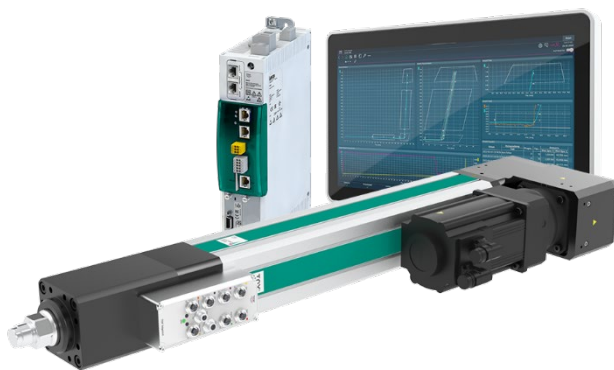


Image 1: The TOX® ElectricDrive Core drive system combines servo drive, control and software - ideal for precise, data-based joining processes in networked production lines.



Image 2: The TOX® PMO process monitoring system enables precise recording and analysis of force, displacement and time sequences - for maximum transparency and process reliability in networked production.

Pictures: TOX® PRESSOTECHNIK SE & Co. KG

About the company:

TOX® is a supplier of presses, systems and components for sheet metal joining and assembly technology. Since its foundation in 1978, the family-owned company has developed into a global player with over 1,500 employees worldwide, including more than 500 at its headquarters in Weingarten near Ravensburg. The success story began with a pneumohydraulic drive - the TOX® powerhouse. The "Components" division now includes pneumohydraulic and electromechanical drives as well as control systems, sensors and software for process monitoring and quality assurance. In addition to a wide variety of presses, the systems division also includes manual, machine and robot tongs. Another mainstay is modern sheet metal joining processes, including TOX® clinching technology, with which the company is now the market leader.

TOX® drives, processes and systems are used by car manufacturers and their suppliers as well as in industrial companies for household appliances, electronic components, furniture and much more. Special versions of TOX® drives are also approved for the food industry.

TOX® has a global presence: 18 subsidiaries, including in the USA and South America, Europe and South Africa, India, China and the entire Asia-Pacific region. 20 representatives in many other markets support and advise customers locally.

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