

New smart TOX-ElectricPowerDrive drives with TOX-ElectricDrive Core

Future-proof complete package

TOX PRESSOTECHNIK launches a solution for smart production: The TOX-ElectricDrive Core system combines the new servo-electrical drives with a module which is servo inverter and central intelligence of the drive control in one. The TOX-SoftWare combines parameterization, operation, process monitoring, diagnosis and evaluation as well as quality management. A new HMI panel simplifies input and analysis.

Clean, flexible and precise - the benefits of a servo drive compared to the hydraulic alternative are clear. There is an additional advantage if process and quality data can be recorded and stored. TOX PRESSOTECHNIK GmbH & Co. has now fundamentally redesigned its servo-electrical range of drives. TOX-PowerModule Core replaces the Line-X-Controller and combines several functions: servo inverter and central interface between TOX-ElectricPowerDrive and TOX-SoftWare. Connection to the robot or the higher PLC is established by means of a fieldbus interface.

The newly implemented TOX-SoftWare replaces the previous four single modules of server, Worx, HMI and HMI config and combines parameterization, operation, process monitoring, diagnosis and evaluation as well as quality data management. The software runs on the PC of the user as well as on the new TOX-HMI-Panel. The latter is available as 10.1 inch manual version and as built-in or support arm unit in 10.1, 13.3 and 21.5 inch. Connection to the system is established by means of Ethernet (TCP).

Data collector on the drive

Another technical innovation is the TOX-Edge-Unit. It is the interface between drive and PowerModule Core and has two digital inputs and outputs each, two analog inputs and one encoder input. It is placed directly on the drive cylinders of the TOX-ElectricPowerDrive series and operates like a decentralized intelligence. It collects data and sends them as a bundle to the TOX-PowerModule Core. As additional cabling is not needed, it runs even more safely. The same applies to the integrated measuring amplifier – it is part of the TOX-EdgeUnit and is positioned directly next to the power sensors integrated into the TOX-ElectricPowerDrive, whose signals it converts. Furthermore, apart from an additional measuring amplifier for an external force sensor, storage is also integrated into the TOX-EdgeUnit. It houses amongst others the drive type, maintenance and stroke counter. The nominal force, serial number,

calibration factor and date for the next lubrication are automatically reported to the PowerModule Core this way.

The new TOX-ElectricDrive Core system is plug-and-play-enabled and can be adapted to new processes with just a few clicks. In addition to a powerful TOX-ElectricPowerDrive, the future-proof complete package includes further versions for different fields of application, starting from 0.02 kilonewton up to 1000 kilonewton of press force.

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Meta title: Smart servo drives with TOX PRESSOTECHNIK

Meta description: With the complete system TOX-ElectricDrive Core, TOX PRESSOTECHNIK promotes its new servo drives to the league of intelligent drives for smart factories.

Keywords: TOX-ElectricPowerDrive; TOX PRESSOTECHNIK; servo drive; EdgeUnit; TOX-SoftWare; TOX-PowerModule Core; TOX-ElectricDrive Core;

Captions:

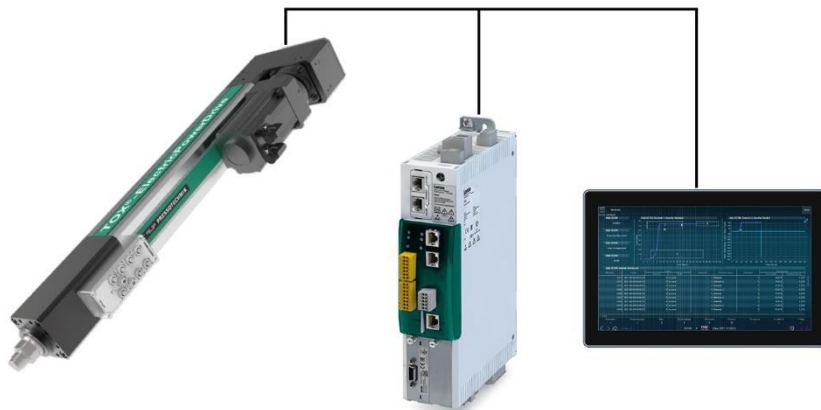


Image: The TOX-SoftWare combines parameterization, operation, process monitoring, diagnosis and evaluation as well as quality management. A new HMI panel simplifies input and analysis.

Image: TOX PRESSOTECHNIK GmbH & Co. KG

About the company:

TOX PRESSOTECHNIK is a supplier of presses, systems as well as components for sheet metal joining and assembly technology. Since its foundation in 1978, the family business has become a global player with more than 1400 employees worldwide, 550 of which are based at the headquarters in Weingarten near Ravensburg, Germany. The success story started with one pneumohydraulic drive – the TOX®-Powerpackage. The “Components” division now includes pneumohydraulic and electromechanical drives as well as controls, sensors and software for process monitoring and quality assurance. In addition to a large range of presses, the system range comprises manual, machine and robot tongs. Another mainstay are modern sheet metal joining procedures, also incorporating the TOX®-Clinching Technology, which makes the company today’s market leader.

Drives, processes and systems from TOX PRESSOTECHNIK can be found at automotive manufacturers and their suppliers as well as at industrial businesses for household appliances, electronic components, furniture and much more. Special versions of the TOX®-Drives are also approved for the food industry.

TOX PRESSOTECHNIK is represented worldwide: 18 subsidiaries, amongst others in the USA and South America, Europe and South Africa, India, China and the entire Pacific Region. 20 representatives in many other markets support and advise local customers.

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