

Press Release

Lenze at LogiMAT: Intelligent drive technology that makes intralogistics more efficient and future-proof

Stuttgart/Hameln, March 6, 2026 - At LogiMAT 2026, Lenze will be presenting in Hall 5, Stand D67, how intralogistics systems can be made more sustainable, efficient and flexible with modern drive and automation solutions. Companies are increasingly facing the challenge of reducing energy consumption, compensating for shortages of skilled workers and implementing projects more quickly. Lenze will be demonstrating how intelligent motion control concepts - such as drive-based motion (DbM) or controller-based motion (CbM) -, powerful hardware and integrated software tools can meet these requirements and reduce complexity at the same time. Visitors to the stand can experience how innovation and a passion for engineering come together to make material flows fit for the future.

One focus of the trade fair presentation will be on Lenze's solutions for storage and retrieval machines, in which different motion strategies are used depending on customer requirements or customer needs. As a strategic partner for the development of modern storage and retrieval machines, Lenze offers a comprehensive concept that combines high-performance hardware, modular software and integrated engineering tools to create a holistic solution.

With its controller-based motion solutions (CbM), Lenze is responding to the growing demand for ready-to-use motion control solutions that can be seamlessly integrated into customers' control systems. A central element is the Lenze FAST machine solutions for storage and retrieval machines. The "Lenze Feasible Application Software Toolbox" (FAST) provides ready-made standard modules for motion and positioning profiles, quick stop functions or manual

operation, i.e. frequently used motion control functions. Since the introduction of the Lenze FAST modules, Lenze has continuously developed its framework and integrated all the necessary logic functions as well as the embedded Lenze FAST modules for storage and retrieval machines. The resulting application proposal for a central, controller-based motion control system enables users to use the solution directly or to adapt it flexibly to individual requirements. A decisive advantage: apart from the standardized and encapsulated FAST modules, the application is fully programmable and expandable in accordance with IEC 611313 in the Lenze PLC Designer, which offers maximum flexibility in implementation.

For all customers who prefer a less flexible solution that is technically simpler and quicker to put into operation, Lenze's drive-based motion approach (DbM) is worthwhile. It is easy to parameterize with the Lenze EASY Starter and shortens the commissioning of storage and retrieval machines by up to 30 percent. The mapping of the control and status data to the interface of the higher-level controller remains freely adjustable, which enables seamless integration into existing systems.

Both approaches use the prepared Lenze FAST software modules, which support various travel and hoist concepts, can be used in normal and deep-freeze operation and integrate comprehensive safety functions.

The Lenze i950 Multi Drive servo inverter offers more flexibility when deciding whether to use a single-axis application or a multi-axis application with a central DC supply.

By using the latest semiconductor technologies, it has been possible to significantly increase the power range within existing sizes. With its integrated DC rail system, the i950 Multi Drive enables energy to be exchanged between axes, reduces wiring costs and supports a significantly more compact control cabinet design. The increased power density and the DC compound lead to maximum performance with minimum space requirements and make it the ideal solution for energy-efficient storage and retrieval machines.

Lenze Motor Drive System IE5/IE6 with i650 motec: Decentralized intelligence and energy efficiency

As a second Highlight, Lenze will be demonstrating at LogiMAT how the IE5/IE6 Motor Drive System with i650 motec can be used to optimize the energy efficiency of horizontal materials handling technology. The combination of motor, gearbox and drive covers a wide range of applications and is particularly impressive in dynamic applications. The decentralized i650 motec frequency inverter expands the Lenze portfolio with an intelligent solution for wall and motor mounting. It enables self-sufficient machine modules thanks to integrated Logic PLC and table positioning. The IO-Link Master functionality provides high-quality operating data directly from the drive technology, which forms the basis for IIoT applications and predictive maintenance. The integrated regenerative module ensures that braking energy is fed back into the mains, which significantly increases energy efficiency. The high performance is also impressive: the i650 motec achieves 300 percent overload torque from a standstill. It can be started from standstill to full load without any problems and without motor feedback. This means that the system can be designed more precisely for continuous operation, as it is not oversized, and then immediately delivers the required power. In combination with IE5/IE6 synchronous motors, the result is a highly efficient motor drive system that saves space and reduces the carbon footprint.

With this portfolio of solutions, Lenze will be demonstrating impressively at LogiMAT 2026 how modern intralogistics can become more efficient, more powerful and more resource-friendly.

About Lenze

Lenze is a leading drive specialist for machine and plant engineering. For more than 75 years, the company has set the pace and been a strong partner at its customers' side. With the help of the triad of electromechanics, electronics and software, Lenze accompanies its customers and helps them to optimize production and logistics processes, cut costs and reduce their energy consumption.

The Lenze Group, based in Aerzen, employs more than 3,600 people worldwide and is represented in 45 countries. Group-wide, the company generated a turnover of 828 million euros in the 2023/2024 financial year.

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