Press Release

Motion technology that adapts to your system - not the other way around

Stuttgart/Hameln, 24 March 2026: Intralogistics companies today are faced with the task of saving energy, implementing projects more quickly and reliably controlling highly dynamic material flows. At LogiMAT 2026 in Hall 5, Stand D67, Lenze will be demonstrating how modern motion control concepts - drive-based motion (DbM) or controller-based motion (CbM) -, powerful hardware and integrated software tools meet these requirements and reduce complexity at the same time.

Focus on customer benefits: solutions for the challenges of intralogistics

Intralogistics is at a turning point: how can companies meet the increasing demands for dynamism, energy efficiency and flexibility while digitalization and networking of machines are fundamentally changing the industry? At the same time, the demands on storage and retrieval machines and materials handling technology are growing: loads must be moved precisely and quickly, but energy must not be wasted in the process. And with increasing digitalization, complexity is also increasing - particularly due to networked systems and the trend towards scalable, modular systems. Machine builders and system integrators are looking for solutions that are not only efficient but also future-proof. As a strategic partner for the development of modern storage and retrieval machines, Lenze offers a comprehensive concept that combines powerful hardware, modular software and integrated engineering tools to create a holistic solution.

Controller Based Motion (CbM): Maximum flexibility and efficiency

In Stuttgart, Lenze will be demonstrating how storage and retrieval machines can be precisely tailored to the needs of users using various motion control approaches. 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. The Lenze FAST machine solutions for storage and retrieval machines are a central element.

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.

Drive Based Motion (DbM): Compact integration and simple commissioning

For all customers who prefer a less flexible solution that is technically simpler and quicker to put into operation, Lenze's drive-based motion (DbM) approach 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 DC-Link servo drive 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 DC-Link 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 link result in maximum performance with minimum space requirements and make it the ideal solution for energy-efficient storage and retrieval machines.

About Lenze

Lenze is a leading drive specialist for mechanical and plant engineering. For more than 75 years, the company has been a pacemaker and 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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