

Press release

Lenze is taking drive performance to the next level with the i750 servo inverter

Efficient, precise, dynamic

Hamelin/Dusseldorf, May 04, 2023. High-performance drive solutions are crucial for efficient and automated production processes. Lenze, one of the leading specialists in the field of drives and automation technology, has added a new servo inverter to its product portfolio. This will ensure that it can provide tomorrow's machines with the best equipment for performing demanding movement tasks. The i750 cabinet servo inverter for motion control applications, when used in combination with modern Lenze controls, solves nearly all automation tasks for dynamic multi-axis applications.

In an age with single-unit batches and steadily increasing competitive pressure in production, the benchmark for drive technology is higher than ever: fast response times, absolute movement accuracy, intelligent algorithms, and maximum productivity are the basic requirements for competitive machine automation. With over 75 years of experience in drive technology, Lenze knows all about these challenges and is now offering a powerful solution for motion control applications with its i750 multi-axis servo inverter. Lenze's Björn Maltzahn, product manager motion control explains: "Our new servo inverter is a logical evolution of our portfolio. The i750 masters complex applications and gives mechanical engineers new options for designing future-proof solutions."

Automation at the highest level

The servo inverter boasts outstanding precision and dynamics. Its excellent control performance allows operators to increase the cycle rates of their machines by up to 20 percent. In combination with a Lenze control, the auto-tuning function simplifies the work of users enormously during commissioning

and also improves the efficiency of the machine. The i750 product range consists of power supply modules and single and double axes operated in the DC configuration. Key features are a narrow installation width and extensive, integrated safety technology. The devices are suitable for universal use in the power range of 1.1 to 15 kilowatts for single axes and from 1.1 to 7.5 kilowatts for double axes. Power is extended to between 22 and 110 kilowatts with the i950 cabinet servo inverter.

Unbeatable package

Apart from its efficiency and precision, one of the new servo inverter's most attractive qualities is that it is so simple to integrate into Lenze's control systems, as Björn Maltzahn reports: "The i750 offers all the advantages of an open EtherCAT CiA402 interface and is used in centrally controlled system architectures. Its full potential becomes apparent in conjunction with Lenze controls, making it an indispensable element in sophisticated automation systems. Users benefit from both maximum accuracy and high throughput." Predefined and tested software modules in the Lenze FAST Application Software Toolbox significantly reduce development and commissioning times thanks to the product philosophy favoring parameters over programming.

One-cable technology throughout

The i750 servo inverter series supports the operation of motors spanning the entire power range using one-cable technology (OCT). Björn Maltzahn considers this a crucial advantage: "One-cable technology saves users more than half the installation effort as well as valuable space in their control cabinets." One-cable technology is possible thanks to the HIPERFACE DSL® open motor feedback protocol. Lenze motors and geared motors using one-cable technology include the MCS and m850 motor ranges, which are equipped with high resolution HIPERFACE DSL® encoders. The i750 servo inverter thus provides a complete drive system for highly dynamic applications.

Safe choice for the future

The development team also focused closely on the servo inverter's new functional safety. Its integrated safety functions cover a broad range of safety-related machine applications. As a result, the device meets safety-related

requirements up to safety integrity level 3 (SIL 3) and performance level e (PL e). Even more extensive options to safeguard machine functions are provided by extended safety functions such as safely-limited speed (SLS), safe direction (SDI), and safely-limited position (SLP). Björn Maltzahn summarizes the benefits: “Whether it is safety, precision, or performance, our new servo inverter and the corresponding product portfolio will give mechanical engineers and machine operators all the tools they need to meet any demands for drive technology.”

About Lenze

Lenze is a leading automation specialist and focuses on designing efficient and sustainable processes for production and material flow. For over 75 years, the company has been a pacesetter in automation and a strong partner at the side of its customers from the machine and plant manufacturing industry. With the help of a triad consisting of electrical engineering, software and a platform strategy, Lenze supports its customers in digitization and helps them to cut costs, optimize the utilization and lifecycle of machine systems and reduce their energy consumption. Lenze's portfolio consists of high-quality mechatronic solutions, powerful systems made of hardware and software for machine automation, and digital services for the machine and plant manufacturing industry.

The Lenze Group, headquartered in Aerzen, employs around 4,000 people globally and is represented in 45 countries. The company generated revenue amounting to 830 million euros across the Group in the 2021/2022 financial year.

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