

Press release

Scalable performance in automation system

Hamelin/Nuremberg, November 14, 2023. With Lenze's new generation of controllers, machine builders can swiftly enhance the performance in their automation landscape. The new controllers are a key component of Lenze's open automation system and enable the connection of Information Technology (IT) and Operation Technology (OT). Thanks to modern engineering and the use of prefabricated software modules, machine builders can benefit from a shorter time-to-market.

Machine builders are increasingly seeking scalable performance in their automation landscape, especially when it comes to controllers. Lenze understands the market's needs very well and has fundamentally revised its controller portfolio in recent months. At SPS - smart production solution in Nuremberg, the automation specialists from Hamelin are presenting the c430 - the smallest model in their new controller product family. "For basic motion control in compact machines the c430 is the right choice. The customer can switch from the c520 or c550 to the c430, without losing any code," promises product manager Andreas Werner. This makes it possible to automate in a much more targeted and efficient way and to scale up (or down) performance if necessary. "Many machine builders do not need high-performance systems in every case, or the requirements only grow over the years," adds Werner. He sees applications primarily in the wood and metal industry (e.g. for saws), in the packaging industry (wrapping and strapping), paper industry (crosscutting) and in the textile sector (winding, spinning). The new controller comes with EtherCAT, OPC UA and Profinet.

Interaction of controller and visualization

Like all Lenze controllers, the c430 also features the FAST UI runtime. In interaction with the engineering tool EASY UI Designer, machine builders can quickly develop good machine visualizations.

The automation specialists have been investing in their visualization expertise for several years. "Good visualization is crucial for the success of a machine. High usability promises process stability, greater operational efficiency, answers to the shortage of skilled workers in industry and thus creates competitive advantages for the customer," explains Jannis Pille, Product Manager Automation Systems. He is responsible for the topic of visualization at Lenze and, together with his team, consistently relies on web-based visualization. To match this, Lenze has expanded its portfolio with new web panels that can be used in the field as well as in the control cabinet. In Hall 7, Stand 391, trade visitors can experience the interaction of controller and visualization.

Lenze automation system

Around the c430, c520 and c550 controllers, Lenze offers an innovative and open automation system, from the field level to the cloud. User-oriented engineering supports the customers. Lenze relies on ready-to-use software modules from the FAST application framework as well as templates and applications that enable customization while reducing development times. A central element is the EASY System Designer, which efficiently supports the development process of a new machine from the initial idea, through the concrete drive design, to the PLC programming interface. In the PLC Designer, users start with a created hardware tree; at the same time, FAST software modules reduce the scope and complexity of programming. With applications on the edge layer, additional functions are added to the machine, enabling condition monitoring and process optimization, for example. Lenze provides the right tool for managing and rolling out these apps with the NUPANO Open Automation Platform. Cloud solutions such as the Asset Performance Platform facilitates cooperation between the OEM and the machine operator in the event of service, round off the range.

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 more than 3,700 people globally and is represented in 45 countries. The company generated revenue amounting around one billion euros across the Group in the 2022/2023 financial year.

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