

Press release

From spinning to finishing - Lenze makes textile machines more efficient

Hamelin/Milan, June 8, 2023. "Transforming the World of Textiles" - this is the motto of the world's largest trade fair for textile and apparel technology, ITMA 2023 in Milan (June 08 - 14). It shows: The textile industry is undergoing change. High demands on the sustainability and flexibility of machines, enormous cost pressure and a shortage of skilled workers pose major challenges for machine manufacturers and operators. Digitalization can provide a remedy here. At ITMA, automation specialist Lenze will therefore be presenting not only hardware and software, but also its digital services and platform offerings.

"Digital solutions help our customers improve their total cost of ownership while implementing new business models. By combining operational technology (OT) and information technology (IT) and using the digital twin across the entire machine lifecycle, they become more efficient, save engineering time, reduce energy consumption and conserve resources," explains Falk Vespermann, Global Segment Manager Textile at Lenze.

Lenze sees itself as a partner to its customers and supports them in their digital transformation. The open automation platform Nupano is just one example of this: it forms the bridge between the IT and OT worlds and enables customers to bring applications (apps) into their machines, even without their own IT expertise, and thus differentiate themselves in the market. Vespermann adds, "Digitalization is having a huge impact on the world of machine builders in the textile industry. Nupano is a key technology for bringing innovation into the machine and leveraging the potential of digitalization at machine and plant level in a simple and value-adding way. Our customers can offer new digital products, increase the efficiency and sustainability of their textile machines and generate more recurring revenue with their customers." Interested parties

can listen to Falk Vespermann's presentation at the InnovatorXchange in Hall 3 on Sunday, June 11, 2023 at 3:20 pm.

Competitive advantages through digital solutions

In addition to Nupano, Lenze can come up with many other concrete digital offerings. In Hall 9, Stand A301, the automation specialist will be showing innovative solutions such as condition monitoring. No extra sensors are needed for this, because the data already comes from the drive. Lenze also uses AI for machine optimization and offers an Asset Performance Platform that creates transparency about the installed components and ensures improved machine availability. The portal is linked directly to the OEM's machines. If a fault occurs, the machine can automatically create a ticket so that service technicians are informed at an early stage. The ticket shows which component is affected, which model or variant is involved, what the serial number is, and how the component was installed in the machine's topology. Incorrect information due to outdated documentation is ruled out: The information comes directly from the PLC, which always reflects the consistent actual state. Since the platform is manufacturer-neutral and relies on open standards, not only Lenze products can be queried. "In this way, downtimes can be avoided, throughput times can be optimized, and the OEE (overall equipment efficiency) of the machines can be increased," says Vespermann, summing up the benefits.

Seamless transparency for more sustainability

The planning of a machine is complex and decisive for the subsequent efficiency and sustainability in production. That is why Lenze offers the right tools for the hardware, but also for the software in the machine. They enable fast and optimal drive design with the right dimensioning and the lowest possible energy consumption.

Precise drive dimensioning, the use of high-efficiency products and regenerative energy form the basis for optimum energy efficiency and resource conservation. In addition, to meet increasing legal requirements, Lenze is already working on the digital product passport (DPP).

In the future, the DPP will transparently display all environmentally relevant data on the installed components or a machine, and will provide the basis for efficient recycling management. The basis is the digital twin, which can be created with Lenze's engineering tool, EASY System Designer, as early as the planning phase. It makes transparent what a machine is made of and how processed materials can be recycled in a targeted manner - an important step towards reducing the industry's ecological footprint.

About Lenze

Lenze is a leading automation specialist focused on designing efficient and sustainable production and material flow processes. For more than 75 years, the company has set the pace in automation and is a strong partner at the side of its customers from the plant and mechanical engineering sector. With the help of the triad of electrical engineering, software and platform strategy, Lenze accompanies its customers in digitalization and helps them to reduce costs, optimize plant utilizations and life cycles, and lower their energy consumption. Lenze's portfolio includes high-quality mechatronic solutions, powerful hardware and software systems for machine automation, and digital services for mechanical and plant engineering.

The Lenze Group, headquartered in Aerzen, Germany, employs around 4,000 people worldwide and is represented in 45 countries. Group-wide, the company generated sales of 830 million euros in the financial year 2021/2022.

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