

EMO 2023, Hall 9, Booth G54

DMG MORI offers the first end-to-end digital twin of a machine tool on Siemens Xcelerator Marketplace

- **Digital twin of the machine, the workpiece, and the controller available in an end-to-end offering on Siemens Xcelerator Marketplace**
- **Siemens underscores its technology leadership in combining the real world with the digital world**
- **Less scrap and avoidance of machine damage**
- **Up to 40 percent faster production ramp-up of the machine**

The technology company Siemens, an innovation leader in automation and digitalization, and DMG MORI, a leading global supplier of cutting-edge machine tools for turning, milling, and grinding as well as for additive manufacturing, are presenting the first end-to-end digital twin for machine tool machining on Siemens Xcelerator. Based on the Digital Native CNC Sinumerik One, the offering includes the digital twin of the controller, the customer-specific DMG MORI machine tool, and the workpiece and is available now on Siemens Xcelerator Marketplace.

A digital twin for machines enables groundbreaking improvements for meeting the challenges of sustainability, flexibility, and time-to-market. The digital twin helps prevent programming errors that cause scrap and damage to the real machine. It enables up to 40 percent faster production ramp-up, significantly reducing the energy consumption of the real machine.

The offer also helps minimize unproductive machine times by up to 75 percent. This is because the testing and running-in of programs is moved from the real machine to the virtual world.

“Digital twins will change the relationship and interaction between suppliers and customers across the entire lifecycle of a machine tool. With our DMG MORI Digital Twin, we’re enabling our customers to achieve higher productivity by shifting unproductive tasks from the machine to the virtual world. As an open, digital business platform, Siemens Xcelerator will accelerate our digital transformation,” says Alfred Geißler, CEO of DMG MORI AG.

With Siemens Xcelerator, Siemens is underscoring its technology leadership in combining the real world with the digital world. Sinumerik One is the most advanced CNC system for highly productive machine tools based on the seamless interaction of the virtual and real worlds. Through its digital twin, Sinumerik One is the key element for digital transformation and helps simulate and test machining processes entirely virtually. This allows NC programs to be completely programmed, simulated, and optimized in a virtual environment before workpieces are actually manufactured.

“With this partnership Siemens and DMG MORI are demonstrating on Siemens Xcelerator the opportunities that the joint and end-to-end use of digitalization offers for productivity, speed, flexibility and thus, future viability. This applies to the machine users as well as in the core to the machine tool manufacturers. Siemens Xcelerator’s approach of bringing different partners together in an ecosystem for the benefit of all is impressively demonstrated by the partnership between Siemens and DMG MORI,” says Achim Peltz, CEO of Siemens Motion Control, who is responsible for Siemens’ Motion Control business.

The open digital business platform Siemens Xcelerator creates a powerful ecosystem of partners to jointly accelerate the digital transformation, each tailored to customers’ specific business goals. Siemens Xcelerator consists of a selected portfolio of products, services, and solutions as well as a marketplace.

The DMG MORI DMU40 machine and its end-to-end digital twin can be seen live at the DMG MORI booth in Hall 2 of the trade fair.



DMG MORI and Siemens are presenting the first end-to-end digital twin for machine tool machining on Siemens Xcelerator.

This press release as well as press pictures are available at <https://sie.ag/4qAs93>

For more information about Siemens at EMO, see www.siemens.com/press/emo23 and www.siemens.com/emo

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Siemens Digital Industries (DI) is an innovation leader in automation and digitalization. Closely collaborating with partners and customers, DI drives the digital transformation in the process and discrete industries. With its Digital Enterprise portfolio, DI provides companies of all sizes with an end-to-end set of products, solutions, and services to integrate and digitalize the entire value chain. Optimized for the specific needs of each industry, DI's unique portfolio supports customers to achieve greater productivity and flexibility. DI is constantly adding innovations to its portfolio to integrate cutting-edge future technologies. Siemens Digital Industries has its global headquarters in Nuremberg, Germany, and has employed around 72,000 people internationally.

Siemens AG (Berlin and Munich) is a technology company focused on industry, infrastructure, transport, and healthcare. From more resource-efficient factories, resilient supply chains, and smarter buildings and grids, to cleaner and more comfortable transportation as well as advanced healthcare, the company creates technology with purpose adding real value for customers. By combining the real and the digital worlds, Siemens empowers its customers to transform their industries and markets, helping them to transform the everyday for billions of people. Siemens also owns a majority stake in the publicly listed company Siemens Healthineers, a globally leading medical technology provider shaping the future of healthcare. In addition, Siemens holds a minority stake in Siemens Energy, a global leader in the transmission and generation of electrical power.

In fiscal 2022, which ended on September 30, 2022, the Siemens Group generated revenue of €72.0 billion and net income of €4.4 billion. As of September 30, 2022, the company employed around 311,000 people worldwide. Further information is available on the Internet at www.siemens.com.