

Digital innovation from Siemens and DMG MORI sets new standard in machine tool efficiency

- **Industry-defining digital twin for machine tool processing available in an end-to-end offering on the Siemens Xcelerator Marketplace**
- **Virtual machine and virtual CNC simulate milling of virtual part**
- **Efficiency gains include up to 40 percent faster ramp-up time**
- **Siemens and DMG MORI partnership underscores power of ecosystems**
- **Milestone marks another step toward industrial metaverse**

Siemens AG and DMG MORI, global leaders in automation and precision machine tools, are offering an industry-defining digital twin for machine tool processing on the Siemens Xcelerator Marketplace. Based on the Digital Native CNC (Computerized Numerical Control) Sinumerik One, this offering encompasses a digital twin of the control system, the machine tool and the workpiece, enabling breakthrough improvements in sustainability, flexibility and time-to-market. CNC SINUMERIK ONE is the leading-edge control system responsible for machining with machine tools.

“DMG MORI is the first partner from the machine tool industry to join the Siemens Xcelerator Marketplace,” said Roland Busch, President and Chief Executive Officer of Siemens AG. “Together, we’re shaping the future of an open ecosystem that seamlessly links domain expertise with cutting-edge technology. Siemens combines the real and digital worlds to enhance efficiency. This collaboration exemplifies our dedication to competitiveness, sustainability and the industrial metaverse.”

“Digital Transformation (DX) will have a significant impact on the manufacturing process chain in the future. With the end-to-end interaction of intelligent machine tools and digital products and services, DMG MORI is creating unique data transparency across the entire shop floor for our customers as part of our Machining

Transformation (MX),” said Dr. Masahiko Mori, President of DMG MORI. “For us, the DMG MORI Digital Twin is a significant part of the Digital Transformation process. The Digital Transformation will even be accelerated by the recent and successful partnership with Siemens Xcelerator.”

The DMG MORI Digital Twin allows up to 40 percent faster ramp-up times and significantly reduces energy consumption. In addition, this offering helps minimize unproductive testing on the machine by up to 75 percent, by shifting non-productive tasks to the virtual realm. It helps customers avoid programming errors that can lead to defects and damage on the real machine and thus makes the production 100% collision free.

The significance of this achievement lies not only in the technology itself, but also in the partnership that made it possible. Siemens and DMG MORI have brought together their unparalleled expertise and technologies into a cutting-edge solution that paves the way for a connected industrial future.

The offering combines a virtual copy of the customer-specific DMG MORI machine tool with the virtual version of Siemens’ popular Sinumerik One CNC and with a virtual workpiece. This powerful combination shows how ecosystems can drive innovation and solve complex challenges.

This partnership also addresses the evolving needs of small and medium-sized businesses by offering an accessible path toward optimization. By leveraging the capabilities of digital twins, businesses can operate smoothly, effectively and with reduced energy consumption. Customers can simulate what they need before deciding on a real purchase of the machine.

“This innovation showcases Siemens Xcelerator’s core values of open collaboration and seamless integration,” said Roland Busch. “It not only transforms the manufacturing landscape, but also makes a digital twin of an entire process accessible for small and medium-sized businesses embarking on their own digital transformation.”

The German machine-building industry plays a pivotal role in global economic development. Its success shows the dynamism and prowess of the German economy, which is driving progress and technical innovation. Over 60 percent of the sector's production output is exported.

As companies begin to lay the foundations for the industrial metaverse, the collaboration between Siemens and DMG MORI signifies a turning point. The digital twin is more than just a technological advancement. It's a testament to the power of partnership, innovation and the shared vision of creating a connected future.



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

This press release is available at: <https://sie.ag/54LUUD>

Contacts for journalists

Siemens AG

Jil Huber

Phone: +49 162 347-4144; e-mail: jil-patricia.huber@siemens.com

Simon Krause

Phone: +49 173 403-9683; e-mail: krause.simon@siemens.com

DMG MORI:

Leonie Williams

Phone: +49 5205 74 3005; E-Mail: leonie.williams@dmgmori.com

Follow us on Twitter: www.twitter.com/siemens_press

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 had around 311,000 people worldwide. Further information is available on the Internet at www.siemens.com.

DMG MORI

DMG MORI is a leading global manufacturer of machine tools and is driving holistic process integration based on technology integration, automation and digitization for greater sustainability. In the "Global One Company", more than 12,000 employees work together to be a total solution provider for our customers. DMG MORI is represented in 43 countries worldwide - with 16 production sites and 113 sales and service locations. High-precision machine tools and sustainable technologies from DMG MORI are at the beginning of global value chains. Integrated automation and end-to-end digitization solutions extend our core business with turning and milling machines, Advanced Technologies and Additive Manufacturing. Our technology excellence is bundled within the main sectors of Aerospace, Automotive, Die & Mold as well as Medical and Semiconductor. With the DMG MORI Qualified Products (DMQP) partner program, we offer perfectly matched peripheral products from a single source. Our customer-oriented services cover the entire life cycle of a machine tool – including training, repair, maintenance and spare parts service.

For more information, visit us online at dmgmori.com