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Mitsubishi Electric Partners with Software Developer ModuleWorks

Targeting machine-tool software development to expand Circular Digital-Engineering business

TOKYO, November 28, 2023 – [Mitsubishi Electric Corporation](https://www.mitsubishielectric.com) (TOKYO: 6503) announced today that it has agreed to strategically partner with and invest in ModuleWorks GmbH, a leading software component provider for the digital manufacturing industry. The agreement builds on Mitsubishi Electric's ongoing collaboration with ModuleWorks, a highly regarded developer of cutting-edge CAD/CAM* solutions, for the development of advanced technologies to generate machining-tool paths** and conduct machine-tool simulations.

The simulation of machining operations and the avoidance of real-time collisions through machine verifications are critical to the operation and safe use of machines, as well as to reducing the burden of engineering.

Mitsubishi Electric intends to accelerate joint development and marketing through its partnership with ModuleWorks. By strengthening its software development, including machine-tool simulation and data integration with CAD/CAM, the company aims to realize easier and safer operation of machine tools, reduce engineering workloads, and optimize engineering chains. Ultimately, this is expected to contribute to the growth of Mitsubishi Electric's Circular Digital-Engineering business, including the expanded use of digital twins and other advanced technologies in the machine tool field and the realization of increasingly smart production sites.

"We are delighted to sign this strategic partnership agreement with Mitsubishi Electric" said Dr. Yavuz Murtezaoglu, Founder and Managing Director of ModuleWorks. "Working in close partnership accelerates technological development and drives digital transformation in manufacturing. We look forward to exciting new developments in our technologies."

"As part of our business strategy for factory-automation systems, we aim to help solve diverse challenges in modern society," said Toshie Takeuchi, Group President of Factory Automation Systems Group at Mitsubishi

* Computer-aided manufacturing (CAM) is based on software that supports and automates manufacturing operations by generating numerical-control (NC) machining programs from computer-aided design data.

** Tool path: Also known as cutter location (CL) data, is a code specifying the path of a cutting tool when machining a product on an NC machine. It is mainly calculated and generated with CAM software.

Electric. "As a result of this agreement for partnership and investment, we expect to deliver solutions that are easier for customers to use, and thereby help to address challenges such as labor shortages and knowledge transfer throughout the engineering chain."

About ModuleWorks GmbH

ModuleWorks (Aachen, Germany, established in 2003) is the leading software component provider for the digital manufacturing industry. With over 200 employees and 1500 person-years of software development, ModuleWorks' expertise in toolpath creation and simulation is recognized throughout the industry and its software components are already optimizing the performance and quality of over 500,000 installed seats of CAD/CAM and CNC software around the world. From standard products to exclusive development projects, ModuleWorks helps companies to bring their vision of Industry 4.0 to life. With its comprehensive portfolio of cutting-edge software components, ModuleWorks enables its customers to optimize their CAD/CAM solutions and connect to CNC/MTB systems to increase their competitiveness and help them Get There Faster. Please visit www.moduleworks.com/

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About Mitsubishi Electric Corporation

With more than 100 years of experience in providing reliable, high-quality products, Mitsubishi Electric Corporation (TOKYO: 6503) is a recognized world leader in the manufacture, marketing and sales of electrical and electronic equipment used in information processing and communications, space development and satellite communications, consumer electronics, industrial technology, energy, transportation and building equipment. Mitsubishi Electric enriches society with technology in the spirit of its "Changes for the Better." The company recorded a revenue of 5,003.6 billion yen (U.S.\$ 37.3 billion*) in the fiscal year ended March 31, 2023. For more information, please visit www.MitsubishiElectric.com

*U.S. dollar amounts are translated from yen at the rate of ¥134=U.S.\$1, the approximate rate on the Tokyo Foreign Exchange Market on March 31, 2023