

Mitsubishi Electric to Establish New Production Site for Factory Automation Control System Products

Increasing production capacity at Nagoya Works

Mitsubishi Electric Corporation (TOKYO: 6503) announced on March 28, 2022 that it has acquired 42,000 square meters of land in Owariasahi City, Aichi Prefecture, Japan to establish a new production site for the manufacture of factory automation (FA) control system products from April 2025.

Demand from the manufacturing industry for FA products is expected to show a medium- to long-term growth, particularly in digital sectors, such as semiconductors, electronic components and data centers, as well as for decarbonisation-related areas such as lithium-ion batteries. To meet this increasing demand, Mitsubishi Electric will invest approximately 13 billion yen (approx. 110 million USD) to establish a new production site in Owariashi City, which neighbors Nagoya, where the company's main FA production site, Nagoya Works, is located.

The new factory will utilise several advanced technologies, such as 5G communication, allowing simultaneous connection of various machines, human workers and automatic guided vehicles (AGVs) as they perform their manufacturing tasks. In parallel, high-speed, real-time data acquisition throughout the factory will provide data sets on all aspects of the production cycle for AI-based analysis to realise a safe and flexible production environment.

Additionally, the factory, which will be a three-floor, earthquake-resistant building with a total floor area of 33,600 square meters, will incorporate Mitsubishi Electric's digital manufacturing solution "e-F@ctory". This advanced digital approach strongly impacts both the supply chain management (SCM) and engineering chain management (ECM) systems. For

example, it combines information technology (IT) and operational technology (OT) with acquired know-how to achieve an integrated FA environment that reduces the total cost throughout the production process from design, manufacturing and maintenance. It also helps accelerate the improvement cycle for productivity and quality, bringing benefits which many manufacturers strive for, like shorter delivery times and higher production quality and efficiency, as well as being able to react flexibly to fluctuations in demand. Furthermore, the new factory will expand the use of automated production processes, including fully utilising AGVs for increased efficiency in logistics, and digital twin technologies for synchronised digital and real-world production.

The factory is expected to achieve carbon neutrality by implementing a range of CO₂ reduction activities that include an “e-F@ctory” based energy monitoring system, and the use of LED lighting, photovoltaic systems and biotopes.

Image Captions:



Image 1: Representation of Mitsubishi Electric Nagoya Work's new factory in Owariasahi City (CG illustration).

[Source: Mitsubishi Electric Corporation, Japan]

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About Mitsubishi Electric Corporation

With 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 4,191.4 billion yen (U.S.\$ 37.8 billion*) in the fiscal year ended March 31, 2021. For more information, please visit www.mitsubishielectric.com

*U.S. dollar amounts are translated from yen at the rate of ¥111=U.S.\$1, the approximate rate on the Tokyo Foreign Exchange Market on March 31, 2021.

About Mitsubishi Electric Factory Automation Business Group

Offering a vast range of automation and processing technologies, including controllers, drive products, power distribution and control products, electrical discharge machines, electron beam machines, laser processing machines, computerized numerical controllers, and industrial robots, Mitsubishi Electric helps bring higher productivity – and quality – to the factory floor. In addition, our extensive service networks around the globe provide direct communication and comprehensive support to customers.

Factory Automation EMEA

Mitsubishi Electric Europe B.V., Factory Automation EMEA has its European headquarters in Ratingen near Dusseldorf, Germany. It is a part of Mitsubishi Electric Europe B.V. that has been represented in Germany since 1978, a wholly owned subsidiary of Mitsubishi Electric Corporation, Japan.

The role of Factory Automation EMEA is to manage sales, service and support across its network of local branches and distributors throughout the EMEA region.

For more information, please visit emea.mitsubishielectric.com/fa

About e-F@ctory

e-F@ctory is Mitsubishi Electric’s integrated concept to build reliable and flexible manufacturing systems that enable users to achieve many of their high speed, information driven manufacturing aspirations. Through its partner solution activity, the e-F@ctory Alliance, and its work with open network associations such as The CC-Link Partners Association (CLPA), users can build comprehensive solutions based on a wide ranging “best in class” principle.

In summary, e-F@ctory and the e-F@ctory Alliance enable customers to achieve integrated manufacturing but still retain the ability to choose the most optimal suppliers and solutions.

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Further Information: emea.mitsubishielectric.com/fa

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