

Mitsubishi Electric and Tramec Announce Strategic Partnership to Meet Growing Demand for Industrial Drive Solutions

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[Source: Mitsubishi Electric Europe]

Image Caption: Mitsubishi Electric and Tramec Announce Strategic Partnership, from the left: Masaki Kawazoe, Hartmut Puetz, Wojciech Bracha, Gianfranco Lanzo, Michele Gavino

Mitsubishi Electric has signed a partnership agreement with Tramec, a European gearbox manufacturer, to supply gearboxes for Mitsubishi Electric's EM-A synchronous motors.

The agreement, formally signed on 22 May 2025, enables Mitsubishi Electric to offer complete gearmotor drive systems that combine ultra efficient IE5+ motors with high efficiency gearboxes. This strengthens the company's position as a drive systems provider while addressing the evolving needs of the European market.

By integrating Tramec's gearboxes with Mitsubishi Electric's EM-A
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synchronous motors, the company can now deliver integrated automation, mechanical and mechatronic components, focusing on energy efficiency and sustainability.

Tramec was selected as a partner due to its reputation in the European market, global operations, and European-based engineering centres, R&D facilities, and manufacturing operations in Italy. This proximity to Mitsubishi Electric's value chain ensures effective collaboration and product delivery, creating a responsive supply chain that can adapt to market demands and customer requirements.

"This partnership enhances our ability to provide integrated drive solutions," said Wojciech Bracha, Strategic Product Manager for AC Drives at Mitsubishi Electric Europe BV. "By combining our EM-A synchronous motors with Tramec's high efficiency gearboxes, we're responding to our customers' needs for comprehensive and energy-efficient drive systems that integrate seamlessly into their operations."

The Net-Zero Challenge Response

According to The Manufacturing Momentum Report 2025, 40% of manufacturers now cite net zero as their main sustainability challenge, making energy optimisation increasingly important.

With electric motors accounting for nearly 70% of global industrial electricity consumption, manufacturers are prioritising energy efficiency when selecting motors and drive systems. This partnership addresses these industry challenges by providing efficient integrated solutions.

Mr Bracha continues: "It was estimated by International Energy Agency that globally by implementing high-efficiency motors industry can save up to 10% of global energy consumption. Further 15-25% of energy savings

can be achieved by optimization of mechanical systems. This cooperation [with Tramec] is a milestone in our commitment to future energy efficiency optimization across various segments of industrial manufacturing.”

Dual Impact: Transforming Machine Building and Operations

For Original Equipment Manufacturers (OEMs), the EM-A motor solutions with Tramec gearboxes offer practical advantages that improve machine performance. The synchronous motor performance ensures stable speed under fluctuating load conditions, enabling the construction of more reliable machines. The improved energy efficiency adds value to OEMs' equipment, supporting the development of machines that meet modern sustainability requirements. Additionally, the sensorless positioning capabilities simplify machine architecture, allowing them to optimize costs while maintaining performance standards.

End users of the integrated solutions will benefit from operational improvements and cost savings. The energy efficiency translates to reduced operational expenditure and lower production costs over the equipment's lifetime. The simplified architecture with sensorless positioning results in improved system reliability and easier maintenance, reducing downtime and service requirements. The stable speed performance under varying loads contributes to consistent production output, addressing a key need in manufacturing environments.

[Sources]

1. The Manufacturing Momentum Report 2025 <https://drive.google.com/file/d/1-xV7PJ9kyUw6cwXoNywKT7I3PWSWENy0/view?usp=sharing>
2. <https://www.globalefficiencyintel.com/global-industrial-motor-systems-initiative>

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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 5,521.7 billion yen (U.S.\$ 36.8 billion*) in the fiscal year ended March 31, 2025. For more information, please visit www.MitsubishiElectric.com

**U.S. dollar amounts are translated from yen at the rate of ¥150=U.S.\$1, the approximate rate on the Tokyo Foreign Exchange Market on March 31, 2025.*

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, its extensive service networks around the globe provide direct communication and comprehensive support to customers. The global slogan “Automating the World” shows the company’s approach to leverage automation for the betterment of society, through the application of advanced technology, sharing know how and supporting customers as a trusted partner.

For more about the story behind “Automating the World” please visit:
www.MitsubishiElectric.com/fa/about-us/automating-the-world

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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