

Mitsubishi Electric's new robot range supports digital transformation in manufacturing

Ratingen, Germany - 5 March 2025

Mitsubishi Electric has launched its MELFA RH-10CRH and RH-20CRH SCARA robots, providing manufacturers with greater flexibility in adopting digital manufacturing while addressing skilled workforce shortages. These new robots enhance industrial automation through high-speed operation, easy installation, and exceptional efficiency. Compact and lightweight, they are ideal for manufacturers aiming to boost productivity while navigating space and weight constraints.



Image: Left: MELFA RH-20CRH, Right: MELFA RH-10CRH. These new robots provide manufacturers with greater flexibility in adopting digital manufacturing while addressing skilled workforce shortages.

Source: Mitsubishi Electric Corporation

First released in English: 19/02/2025

Engineered with versatility in mind, the MELFA RH-CRH series is a perfect fit for a wide range of applications, including assembly, coating, and precision conveyance. With maximum reach radii ranging from 600mm to 1000mm and payload capacities of up to 10kg and 20kg, respectively, the RH-10CRH and RH-20CRH offer performance and adaptability to meet various production needs. The RH-10CRH is designed for transportation and assembly in the food and automotive industries, while the RH-20CRH specializes in handling and packaging heavy items. Their lightweight design and compact structure allow for seamless integration into even the most restricted workspaces, maximizing operational flexibility.

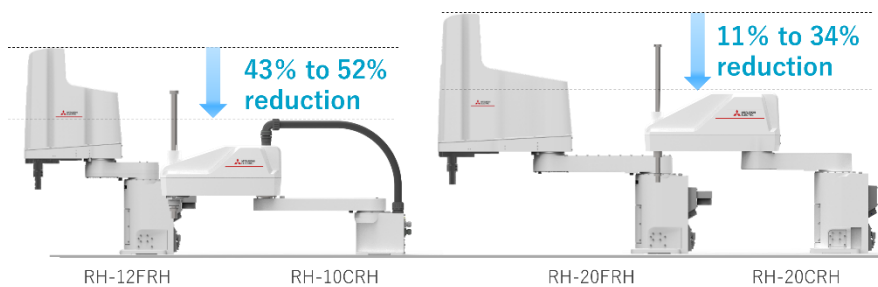


Image: The new MELFA RH-CRH models have a streamlined design

Source: Mitsubishi Electric Corporation

The MELFA RH-CRH series robots are equipped with innovative battery-less motors, which removes the need for periodic battery replacements. This reduces maintenance downtime and costs and effectively eliminates the risk of losing the robot's positional origin (home position) due to battery exhaustion. As a result, the robots deliver consistent reliability, even during long production schedules or after extended downtime periods.

These improvements to productivity are amplified by a simplified design that significantly reduces the number of components, resulting in up to 69% weight reduction compared to previous models. This lowers installation and facility costs while enhancing long-term operational

reliability, continuous operation performance, and overall productivity. Furthermore, the integrated wiring and air piping within the robot arm reduce wiring complexity and simplify setup.

The MELFA RH-CRH series also offers advanced functionality, tracking operations, support for 3D and 2D vision sensors, and force sensing, ensuring precise performance for high-speed tasks. Compatibility with CC-Link IE Field Basic, a gigabit industrial Ethernet network, enables seamless integration into existing production networks and Mitsubishi Electric Factory Automation products, making it ideal for digital transformation in manufacturing. Its optional safety features ensure secure operation in collaborative environments.

“With the MELFA RH-CRH series, we’ve created a solution that delivers exceptional performance and addresses the practical challenges our customers face in modern manufacturing,” said Keisuke Matsumura, Development Section Team Leader. “These robots alone demonstrate our commitment to innovation by helping manufacturers enhance productivity and efficiency. Additionally, when combined with other Mitsubishi Electric’s software advances - such as MELSOFT VIXIO enabled AI visual inspection, the creation of digital twins using MELSOFT Gemini - the expansion of automation, additional cost savings and system benefits can be achieved.”

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Originally (initially) released in English.

For more information about Mitsubishi Electric’s MELFA CR series, please see the following:

Introductory video: <https://youtu.be/s1JOofLnPFs>

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More about MELFA RH-10CRH and RH-20CRH SCARA robots:

<https://emea.mitsubishielectric.com/fa/products/rbt/robot/horizontal/rhcrh-series>

Discover the complete range of our robot family here:

<https://shorturl.at/ubL1L>

About Mitsubishi Electric Corporation

With more than 100 years of experience in providing reliable, high-quality products, Mitsubishi Electric Corporation (TOKYO: 6503) is a recognised 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 5,257.9 billion yen (U.S.\$ 34.8 billion*) in the fiscal year ended March 31, 2024. For more information, please visit www.MitsubishiElectric.com.

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, computerised 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 leveraging 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. which 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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