

## **New Mitsubishi Electric robot handles larger payloads with longer reach**

**Ratingen, Germany 16 April 2024**

**Mitsubishi Electric has launched the MELFA RV-12CRL vertical articulated robot, which offers 1,504 mm reach and 12 kg payload capacity. The robot's wide effective working area makes it suitable for a variety of processes and industries, including food & beverage, automotive, lithium-ion battery manufacturing, logistics and warehousing. Users will also be able to take advantage of built-in functions that streamline implementation, enhance safety and reduce downtime.**



*[Source: Mitsubishi Electric Europe, Germany]*

*Image caption: Mitsubishi Electric's latest MELFA RV-12CRL vertical articulated robot supports industrial automation pick-and-place applications with a 1,504 mm reach and 12 kg payload capacity.*

The high payload capacity and category-leading reach means the latest MELFA robot can deliver high flexibility and versatility in pick-and-place as well as assembly applications. Performance is also enhanced by the RV-12CRL's ability to operate at high speeds, with the arm designed to accommodate high inertia and momentum. This resilience means the robot can support precise positioning even when handling heavy loads, maintaining accuracies of  $\pm 0.04$  mm.

The six-axis robot can be equipped with MELFA SafePlus for extended safety functions. This uses sensors such as light curtains to limit speed, torque and reach when human workers are detected nearby, allowing it to operate without safety cages. The ability to safely work in shared spaces without having to stop whenever a worker approach makes it effective in flexible production environments.

As with the rest of the RV-CR series, the robot is designed to maximise reliability and service life, reducing the total cost of ownership. This includes the use of next-generation servo motors with battery-less encoders that eliminate the need for battery replacements or backups, slashing both maintenance costs and downtime.

Oliver Giertz, Strategic Product Manager for EMEA Region at Mitsubishi Electric, says: "We are excited to introduce the MELFA RV-12CRL robot. Thanks to its innovative features and performance, this latest addition to our range offers a cost-effective and efficient solution for repetitive handling operations involving large and heavy items."

To learn more about Mitsubishi Electric's latest RV-12CRL robot, please visit <https://emea.mitsubishielectric.com/fa/products/rbt/robot/vertical/RV-CR-series>



*Image Caption: Thanks to a remarkable reach that exceeds 1.5 m, one of the longest reach radii for robotic solutions of the same category, the MELFA RV-12CRL offers a wide effective working area.*

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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](http://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.*

### **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](http://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](https://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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