

PRESS RELEASE

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Mitsubishi Electric's New Robot Carries Heavier Loads Over a Longer Reach

Mitsubishi Electric has launched the MELFA RV-12CRL six-axis robot, offering a reach of 1,504 mm and a payload capacity of 12 kg. With its wide working envelope, the robot can be used across a variety of industries and applications, including food and beverage, automotive, lithium-ion battery manufacturing, logistics, and warehousing. Users can also benefit from built-in functions that help simplify applications, enhance safety, and reduce downtime.

With its new and improved payload capacity and extended reach, Mitsubishi Electric's new MELFA RV-12CRL robot delivers high flexibility and versatility for pick-and-place applications as well as assembly operations. The performance of the RV-12CRL is further enhanced by its arm design, which is engineered to accommodate high inertia and momentum, enabling high-speed operation. Thanks to this flexibility, the robot supports precise positioning with an accuracy of ± 0.04 mm, even when handling heavy loads.

The six-axis MELFA RV-12CRL can also be equipped with MELFA SafePlus to provide extended safety functions. With this system, the robotic arm can limit speed, torque, and reach by using sensors such as light curtains when it detects nearby human workers, enabling operation without safety cages. Its ability to work safely in shared spaces without stopping when a worker approaches provides significant advantages in flexible production environments.

Like other members of the RV-CR series, the Mitsubishi Electric MELFA RV-12CRL robot is designed to maximize reliability and service life while reducing total cost of ownership. By eliminating the need for battery replacement or backup, the MELFA RV-12CRL helps reduce robot maintenance costs and downtime. The use of next-generation servo motors with batteryless encoders further enhances reliability and long service life, contributing to improved total cost of ownership.

Oliver Giertz, Strategic Product Manager for Mitsubishi Electric in the EMEA region, stated that the latest MELFA RV-12CRL robot, with its innovative features and high performance, offers a cost-effective and efficient solution for repetitive handling of large and heavy parts.

For more detailed information about the Mitsubishi Electric MELFA RV-12CRL robot, please visit:
<https://emea.mitsubishielectric.com/fa/products/rbt/robot/vertical/RV-CR-series>