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**Presse Information.**

Press Release.

Linde Material Handling and ROSSMANN present innovative robotic vehicle for automatic order picking in warehouses

**ROSSMANN implements automated order picking using Linde RoCaP**

**Aschaffenburg, November 4, 2025 – At the Linde Automation Summit in Aschaffenburg on November 12–13, 2025, intralogistics specialist Linde Material Handling and ROSSMANN, one of Europe’s largest drugstore chains, will present an innovative robotic vehicle for autonomous order picking in warehouses. The Linde Robotic Case Picker (RoCaP) is equipped with a multi-axis gripper arm that picks individual packages from the rack and place them on an integral carrier. Following a successful test phase, ROSSMANN is moving forward with its first vehicle investments.**

As any warehouse manager will confirm, order picking from mixed pallets or roll containers is among the most labor-intensive tasks in a warehouse. For many years, companies have been seeking solutions to automate the manual consolidation of orders on pallets or roll containers. The underlying objective is twofold: to reduce the workload for employees and minimize errors while also addressing the increasing labor shortage in the warehouse sector. The innovative Linde RoCaP promises to bring a breakthrough in automating this task.

**Linde RoCaP as a game changer**

In March of this year, the preliminary development of the new robotic vehicle was completed at Linde MH. The next milestone was to validate the marketability of the innovative vehicle in a customer’s operation under realistic conditions using the proof-of-concept approach. The concept garnered immediate attention from ROSSMANN, an international family-owned company, that had long sought a solution to relieve the burden on employees, particularly when picking outer packaging weighing up to 25 kilograms. Initially, the company-specific requirements for utilization in ROSSMANN’s regional warehouse in Burgwedel were established. This was followed by several weeks of testing, after which those responsible at ROSSMANN were pleasantly surprised. “The Linde RoCaP has the potential to represent a significant advance in warehouse logistics. It can help address the existing shortage of skilled workers and relieve employees of physically demanding tasks,” says Hendrik van Duuren, Managing Director of ROSSMANN Logistics. The collaboration with ROSSMANN is extremely valuable for Linde MH, too. “Collaborating with our customers to further advance the vehicle will ensure long-term market success,” asserts Frank Wiezorek, Senior Director of IKA Solutions for Linde MH. The partnership with ROSSMANN places emphasis on meeting the needs of the highly significant retail segment.

**A vehicle packed with high-tech features**

The new Linde RoCaP is based on the Linde L-MATIC HD, an automated pallet stacker with a load capacity of 1.6 tons and a travel speed of up to 7.2 km/h. The vehicle, navigation, and safety technologies, as well as the battery compartment, lift mast, and automation arch, are the same as those of the series vehicle. This ensures cost advantages and robustness. A new feature is the four-axis intelligent robotic arm. Permanently attached to the fork carriage, it picks the packages and places them on the goods carrier. The load-bearing device for roll containers was specifically designed for use at ROSSMANN. It is supported by steel struts and also features a folding ramp attached to the vehicle. This allows the roll containers to be pushed up and down, while at the same time securing them firmly in place during transport.

The Linde RoCaP receives its orders from ROSSMANN’s warehouse management system via a server interface. The RoCaP management system utilizes various parameters to determine the next shelf location, including the size and weight of the order items and the optimal route. Upon arrival, the robot’s gripper arm is deployed. The device is equipped with a 3D camera that incorporates AI chips from NVIDIA. The camera recognizes the pallets in real time, verifies their accuracy, conducts an optical measurement, and delineates the three-dimensional “workspace.” This is followed by a complex surface scan. It determines the exact location of the packages on the pallet and which package to select according to defined operational specifications. The robotic arm then utilizes special vacuum technology to grasp the package, lifting it into the desired position.

**Ideal for use in brownfield sites**

“The collaboration with ROSSMANN has demonstrated the significant potential of the Linde RoCaP. We now aim to build on this potential together with the customer, who operates almost 5,000 stores across Europe,” says Peter Krumbholz, project manager in the Advanced Robotic Solutions division, who is overseeing development of the Linde RoCaP for the Linde brand. The time-consuming manual picking process in the ROSSMANN warehouse will now be gradually reduced – for the sake of enhanced safety, efficiency, and throughput.

The Linde RoCaP is designed for adaptability, making it suitable for integration into other warehouses and distribution centers. “The modular concept allows us to equip other automated vehicle models with the gripper arm as well,” explains development engineer Krumbholz. “It is ideally suited for automating brownfield sites with established warehouse layouts and mixed operations.” Thanks to being equipped with sophisticated safety technology for the vehicle and gripper arm, the Linde RoCaP can work side by side with human colleagues in the same aisle. “This advantage will open up significant opportunities, because mixed operations involving both manual and automated or autonomous vehicles in warehouse and production environments will become increasingly prevalent in the future,” says Frank Wiezorek. “We aim for the Linde RoCaP to make a substantial impact and provide optimal support to our customers as they advance towards automation.”

**Dirk Rossmann GmbH**

Considered the inventor of the drugstore market in Germany, Dirk Roßmann opened his first store in Hanover in 1972. Today, ROSSMANN (headquartered in Burgwedel near Hanover) is one of Europe’s largest drugstore chains. As of January 2025, it had 65,500 employees in Europe and operated 4,966 stores, 2,311 of which are in Germany. ROSSMANN offers a wide range of products for all areas of daily life, stocking 23,000 household, health and beauty items, including 5,500 of its 28 own brands,. Turnover in 2024 amounted to 15.3 billion euros (9.9 billion euros in Germany).

**Linde Material Handling GmbH**Linde Material Handling (MH) is a global intralogistics company and part of KION GROUP AG. From 2022 to 2024, the company generated an average annual revenue of approximately EUR 5.23 billion. Linde MH and its independent network partners have a collective global sales and service workforce of around 9,700 professionals, ensuring close customer proximity with around 700 locations spanning all continents. Since its establishment 121 years ago, Linde MH has evolved into a comprehensive provider of material flow solutions, offering a diverse range of products and services. These include counterbalanced trucks with load capacities of up to 18 tons, manual and automated warehouse and systems technology equipment, mobile robots and explosion-protected industrial trucks, as well as a growing portfolio of software solutions, consulting and other services. The Linde brand represents maximum performance, achieved by technical innovation, superior standards in driver ergonomics and safety, and a broad range of energy options, along with customized offerings that seamlessly align with customers’ needs.

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**Images and captions:**

Ein Bild, das Maschine, Im Haus, Gebäude, Bautechnik enthält.

KI-generierte Inhalte können fehlerhaft sein.

Image no. \_86A0215\_e.jpg

**Together with ROSSMANN, Linde Material Handling has advanced its Linde Robotic Case Picker (RoCaP). The innovative robotic vehicle has a multi-axis gripper arm for autonomous order picking in warehouses.**

Ein Bild, das Text, Im Haus, Stapel enthält.

KI-generierte Inhalte können fehlerhaft sein.

Image no. \_86A0273\_e.jpg

**At the core of the Linde RoCaP is the intelligent gripper arm, which is used at ROSSMANN to lift containers from pallets and place them on a roll container.**

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[Press releases overview (linde-mh.com)](https://www.linde-mh.com/en/About-us/Press/)

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