



CUSTOMER SUCCESS STORY

Streamlining order fulfilment in logistics operations: Distributor of electrical motors puts a mobile robot into action

Brd. Klee A/S

Albertslund, Denmark



Increased Productivity



Enhanced Flexibility



Improved Workplace Safety



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Key Benefits

- 1 **Streamlined order fulfilment** processes
- 2 **Reduction in manual labour** and repetitive tasks
- 3 **Enhanced efficiency** in internal goods flow
- 4 **Safer working environment** for employees
- 5 **Seamless operations** thanks to flexible and integrated automation

At a glance

Brd. Klee A/S, a Danish distributor of electrical motors, partnered with Ølgod Elektro to implement an autonomous mobile robot (AMR) solution from OMRON, aiming to optimize their logistics processes.

By integrating the OMRON LD250 mobile robot, Brd. Klee significantly increased productivity, enhanced flexibility, and improved workplace safety.

The solution streamlined order fulfilment, reduced manual labour, and ensured a smoother internal goods flow. With seamless integration and collaboration, Brd. Klee achieved operational excellence, setting the stage for future development and innovation.



The challenge

In their pursuit of operational excellence, Brd. Klee sought to optimize their logistics processes. The goal was to eliminate manual labor and enhance flexibility within the company's daily handling of shipments. They had considered forklifts as an alternative but recognized the need for a more flexible, safe and efficient solution. A key criterion for this solution was the replacement of manual carts with mobile robotics solution, leading them to not consider other solutions apart from OMRON.

Brd. Klee required a partner who could provide seamless integration between the system controller and the mobile robot. Together with Ølgod Elektro they implemented a simple yet powerful solution using an OMRON autonomous mobile robot (AMR).



Brd. Klee A/S, a Danish company specializing in the distribution of electrical motors and gears, sought to optimize their logistics processes. Brd. Klee, part of the esteemed Bonfiglioli Excellence Service Team, has been serving the industry since its establishment in 1944. Based in Albertslund, greater Copenhagen, Brd. Klee offers technical solutions to various industrial sectors. They partnered with Ølgod Elektro to implement a solution using an autonomous mobile robot (AMR) from OMRON.

Claus Andersen, team leader of the warehouse and logistics department at Brd. Klee comments: *"Our warehouse is quite large in total, and we have a lot of parts in our internal goods flow, that are just being transported from point A to point B, a distance of about 80 meters. If you multiply this by 30 to 40 times a day, this adds up to more than 6 kilometres. We wanted to automate this internal transport process, to free up the valuable time for our colleagues, and allow them to allocate that time for other activities."*

The solution

The implemented solution makes use of the OMRON LD250 mobile robot, which efficiently serves 10 carts equipped with a Euro Pallet. Brd. Klee's workers fill these carts with goods, and the LD250 autonomously transports them from the warehouse to the shipment area. This straightforward solution has proven to be immensely helpful in streamlining order fulfilment operations. Brd. Klee collaborated closely with Ølgod Elektro and OMRON throughout the implementation process.

OMRON not only provided the mobile robot but also acted as a sparring partner for the system integrator, while CesTek A/S, a leading automation supplier in Denmark, played a significant role by supplying the carts

and top modules for the mobile robot. The integration between the system controller and the OMRON mobile robot, along with the utilization of other OMRON automation products, such as the Sysmac software and the NX102 machine automation controller, ensured a smooth and successful implementation.

Claus Andersen continues: *"The new process works very well, we save many working hours on the transport time of the goods back and forth, and we have taken full advantage of the AMR solution. Also, we need to transport heavy parts, and we want to spare our employees and take good care of them. So, the mobile robot contributes to a better and safer working environment too. Our employees are very enthusiastic about this solution and it's very reliable."*



Results and benefits

The implementation of the OMRON autonomous mobile robot solution had a strong impact on Brd. Klee's operational efficiency. By removing a part of the manual labor and repetitive tasks, the company experienced significant improvements in productivity and flexibility. The seamless integration between the system controller and the mobile robot provided by OMRON proved to be a key advantage. This implementation showcases how a simple solution can be implemented at smaller entities without significant investments.

Claus Andersen concludes: *"The innovative solution also serves as inspiration. If this one solution has provided so much additional value, what else can be come up with for the future to provide value for our operations and colleagues. It's a first step towards future development here at Brd. Klee."*



About Brd. Klee

For more information about Brd. Klee, please visit: <https://www.klee.dk/en/about-us-1>

About OMRON Corporation

OMRON Corporation is a global leader in the field of automation based on its core technology of "Sensing & Control + Think". OMRON's business fields range from industrial automation and electronic components to social systems, healthcare, and environmental solutions. Established in 1933, OMRON has about 29,000 employees worldwide, working to provide products and services in around 120 countries and regions. For more information, visit OMRON's website: <http://industrial.omron.eu>