

Jungheinrich customer reference

Increasing efficiency through automation.



AGLUKON utilises growth opportunities with Jungheinrich.

With well-known brands such as Wuxal and Complestal, AGLUKON Spezialdünger represents premium quality in the fertiliser sector. In order to maintain this high standard and counter any capacity bottlenecks, AGLUKON has invested in a new narrow aisle warehouse with state-of-the-art warehouse technology. A spacious new-build warehouse is now used to handle raw materials and finished goods in a semi-automatic system. As the general contractor, Jungheinrich supplied narrow-aisle trucks, UPC shuttles and automated guided vehicles, which are controlled by a comprehensive warehouse management system. And the best thing is: all the components are scalable and can be easily expanded in the future.

SCALABLE AUTOMATION.

Whereas stock had previously been spread across six different warehouses and had to be transported over long distances, the customer now benefits from short distances and efficient processes. "Unnecessarily long distances were travelled, sometimes outside, subjecting our industrial trucks to a great deal of wear and tear. And the employees often had to spend a long time searching for the right material. This needed to change," explains CTO Dr Benjamin Klug. "The requirements were clear: efficient processes, automated as far as possible in order to guarantee quality." Over the course of the project, 50% of the narrow aisle warehouse has already been automated, with further areas to follow in succession.

Open-heart logistics.

INTEGRATED LOGISTICS FROM A SINGLE SOURCE.

The automated narrow aisle warehouse has two identical areas, each with four aisles and an overall capacity of more than 5,000 pallet storage locations. The transport of finished goods is fully automated using EKX 516a trucks, while large packages, and raw materials requiring somewhat more complex handling, are transported manually with two narrow aisle trucks. The packaging line uses ERC 217a automated guided vehicles. Hazardous goods are stored in a new integrated shuttle warehouse served by two UPC shuttles.

COMPLEX IMPLEMENTATION IN RECORD TIME.

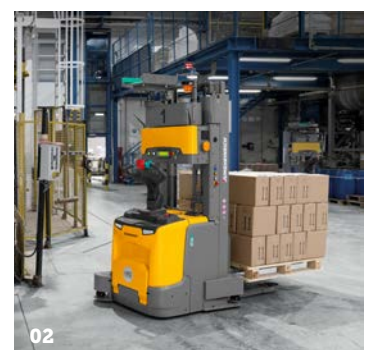
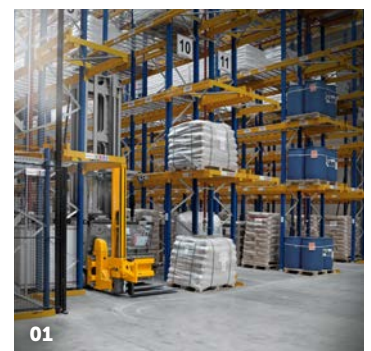
One special aspect of the AGLUKON production facility is its location in the centre of a mixed industrial and residential area. In addition to the coordination of all parties involved, a number of safety regulations had to be observed. "We needed to complete the project before the start of our peak season, which is why it had to be done during the construction work and ongoing operations," says Dr Klug. Thanks to the team's proactive, fast and goal-orientated work, we were able to meet the customer's required schedule, successfully completing the project.

ALL-ROUND OPTIMISED WAREHOUSE LOGISTICS.

The customer sees the fact that the entire inventory is housed under one roof and processed as part of one system as the greatest improvement. "Jungheinrich offered the best solution to our needs and was able to deliver the complete package from a single source," says CTO Klug, praising the collaboration. In addition to a significant increase in capacity and efficiency, the customer benefits from reduced error rates and projectable availability. "The system fits perfectly into our operations, and we are now ideally positioned for continued growth in the future."

01
More than 5,000 pallet spaces are served by manual and automated VNA-trucks.

02
The ERC 217a automated guided vehicles take over routine tasks and serve the packaging line.





// Working with Jungheinrich has ensured the success of our entry into automation. //

Dr. Benjamin Klug,
Managing Director/Chief Technology Officer (CTO)
at AGLUKON Spezialdünger

Talking to Dr. Benjamin Klug, CTO at AGLUKON Spezialdünger.

What were the main reasons for building a new warehouse and optimising internal logistics?

Continuous growth prompted us to put our processes to the test. With the help of an expert, a thorough analysis identified potential for improvement. The optimisation of internal logistics promised the greatest gains. Fully optimising the needs of our customers requires a precise overview of our stock quantities and the ability to use them strategically. This was not 100% possible in the old warehouse complex. Stocks were distributed across various, differently structured, warehouses, which meant that processes were inefficient, and the error rate was too high. In addition, we struggled with capacity bottlenecks and a shortage of skilled labour in the old structures.

You are focusing increasingly on automation in the new warehouse. What do you see as the main advantages?

The current labour market is making it increasingly difficult to find and retain employees. Partial automation has enabled us to counteract the growing shortage of skilled labour. Jungheinrich's solution enables us to combine automated and manual processes. The reorganisation has now enabled us to keep a close eye on our inventory levels. All goods are stored in one warehouse and the digital control through the Warehouse Management System is an immense improvement for our stock management. Our capacity and efficiency have increased, while the transport distances have been shortened. Overall, our processes now run more smoothly and clearly.

Why did you decide on Jungheinrich and would you recommend the cooperation to others?

During the selection process, several providers were asked to provide both a manual and a semi-automated logistics solution. Some providers were unable to automate key sub-processes, or only in part. Others were unable to implement pallet handling as desired. Ultimately, Jungheinrich's concept was the most convincing. "As a manufacturing company, we lack experience in intralogistics. The expertise of a logistics provider was therefore essential for us. Jungheinrich made it easy for us to get started in terms of automation and we look forward to further projects in the future."

THE PROJECT AT A GLANCE



Customer:	AGLUKON Spezialdünger GmbH & Co. KG
Industry:	Chemical and pharmaceutical industry
Company size:	80 employees
Location:	Düsseldorf, Germany
Warehouse size:	approx. 4,600 m ² storage space

CHALLENGE

New-build warehouse with adaptation of internal logistics to increase efficiency and optimise processes. Automation of transport logistics for highly customised products and a reduction in the error rate for stock management.

JUNGHEINRICH SOLUTION

Semi-automated, scalable high-bay warehouse with 6,400 storage locations, automated guided vehicles, automated and manual narrow aisle trucks, shuttle warehouse with UPC shuttles and a comprehensive Jungheinrich Warehouse Management System.

RESULTS

Capacity gains and a marked increase in efficiency in the new warehouse, as well as increased projectable availability with a simultaneous reduction in error rates thanks to process automation.

IMPRESSIONEN



Thanks to the new warehouse and the adaptation of internal logistics, AGLUKON now benefits from short distances and efficient processes.



Integrated shuttle warehouse for the storage of hazardous goods.



Automatic charging of the AGVs ensures maximum efficiency.