

Jungheinrich Case Study

# Automated EKS 215a at MAIER CZ.



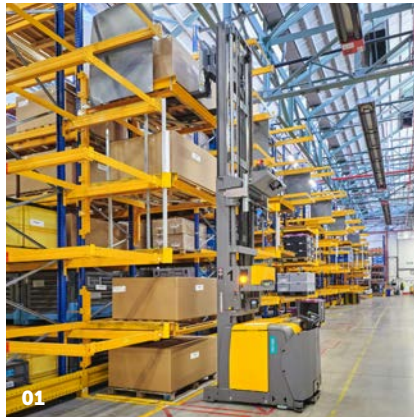
# EKS 215a for maximum productivity.

At MAIER CZ, an AGV solution was implemented to ensure efficient movement of pallets from production to the warehouse, and from there to product dispatch.

Maier is a leading European producer of parts for the automotive industry. The plant in Prostějov was opened in 2006 and focuses on producing visible exterior and interior parts, including their surface treatment. The plant has more than 400 employees.

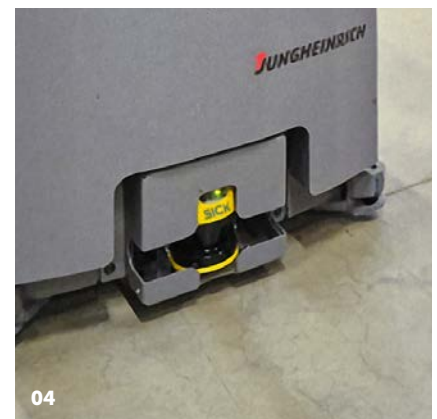
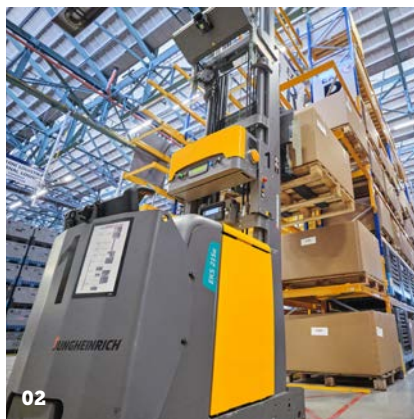
At MAIER CZ, a comprehensive AGV solution was created and fully integrated into the customer's processes and systems. Two EKS 215a AGVs with a 5 m lift height communicate through the Logistics Interface with sensors at the transfer positions and with the warehouse management system. These help move pallets from production to the system warehouse and from the warehouse to dispatch.

The automated trucks operate in mixed traffic, where people and ordinary handling technology may also be moving. Laser navigation and safety sensors ensure smooth, safe operation. The high level EKS 215a order pickers are able to transfer up to 24 pallets an hour, which significantly increases warehouse efficiency.



**01 · 02 · 03**  
Load capacity 1.5 t.  
Lift 5 m.  
Travel speed  
up to 9 km/h.

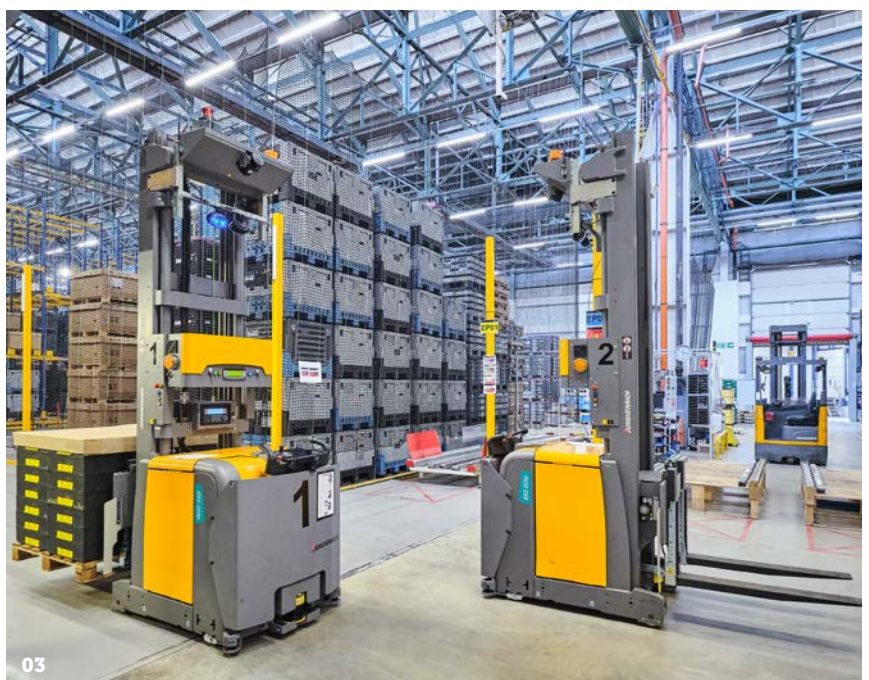
**04**  
Active personal  
protection for mixed  
operation.



“ Continuous optimization of processes in production and logistics has been our motivation in acquiring two Automated Guided Vehicles. ”

**Michal Stýblo**

Logistics Process Engineer,  
MAIER CZ s.r.o.



## PROJECT SUMMARY



Customer:	MAIER CZ s.r.o.
Sector:	Parts producer for the automotive industry
Company size:	400 employees
Location:	Prostějov
Performance:	24 pallets an hour

## CHALLENGE

The customer wanted to optimize processes in production and logistics. The goal was to reduce routine pallet transport work and thus free up labour for more complex tasks. At the same time, due to cramped space, emphasis was placed on process safety.

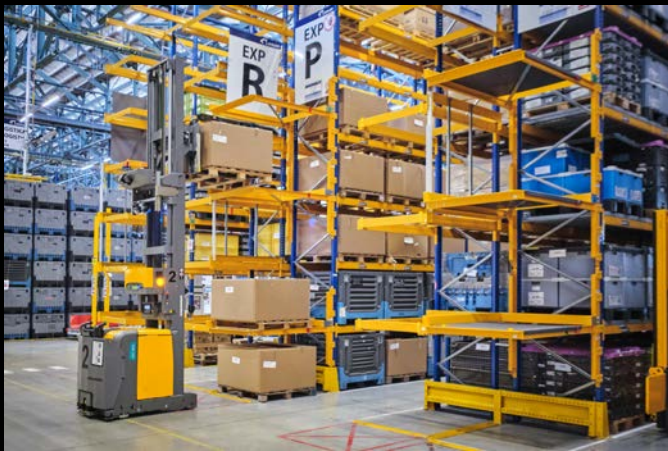
## JUNGHEINRICH SOLUTION

Two EKS 215a automated guided vehicles that can raise up to 1.5 tons as high as 5 metres. Logistics Interface for communication with the customer's WMS system, laser navigation, and personal protection system.

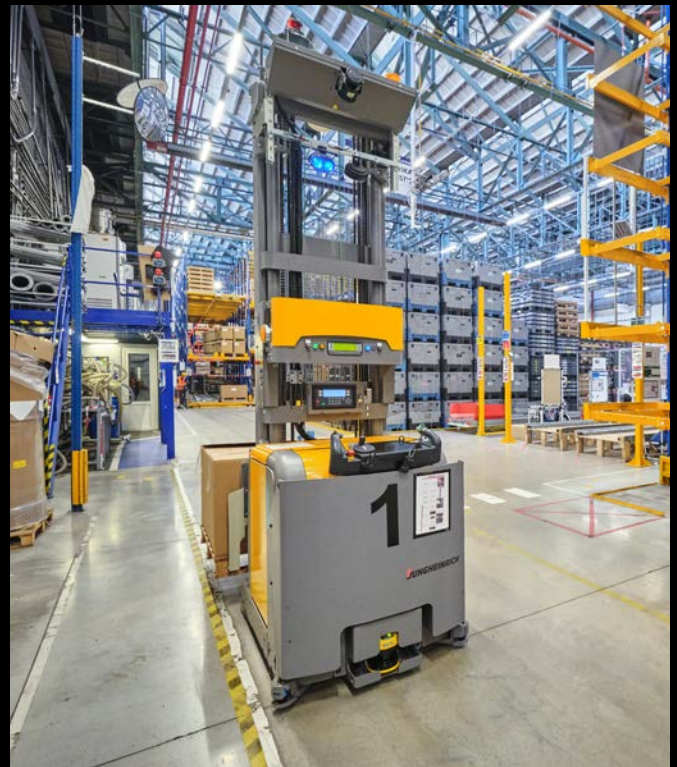
## RESULTS

Once deployed, the system transfers up to 24 pallets an hour, and can distinguish different pallet dimensions and their appropriate positions on the racks, all while maintaining maximum safety when operating among people and other vehicles.

## CONCLUSION



The AGVs can transfer up to 24 pallets per hour.



Laser navigation and safety sensors ensure smooth, safe operation.