Mobile robot high-stack applications

EKS 215a

Lift height: 2750-6000 mm / Load capacity: 1500 kg

LI-ION technology

JUNGHEINRICH

The flexible AGV

for flexible mixed operations.

Automated logistics processes with maximum efficiency.

A compact and versatile Automated Guided Vehicle (AGV), our EKS 215a is the perfect choice for efficient mixed operations with manual trucks and pedestrians in warehouses and production areas.

The 24-V energy concept with lithium-ion battery and automatic charging function ensures maximum flexibility in addition to the modular mast concept, while adjustable forks and a high residual capacity facilitate the handling of special load carriers in stations that cannot be driven under as well as delivery in racks.

A future-proof safety concept with integrated personal protection sensors guarantees a high level of safety in mixed operation and the user-friendly HMI touch display simplifies the interaction between man and machine.

Automate your manual processes with our innovative all-rounder – the EKS 215a.

VDA 5050 compatibility

Mobile robots from Jungheinrich are VDA 5050-compatible and have a standardised interface for communication with the master control. This enables the mobile robots to be used with manufacturer-independent control systems.

No worries. No compromise.

The Jungheinrich Li-ion Guarantee Plus provides you with a long-term performance promise of up to 8 years on our high-quality lithium-ion batteries. We are certain that the high performance and long service life of our lithium-ion technology will convince you. This is why we guarantee that you can easily and quickly switch back to your original technology at any time within 6 months of delivery.

All benefits at a glance

- Versatile, compact AGV for safe use in mixed operations
- Lifting height up to 6 m and adjustable forks for high flexibility
- Simple operation with intuitive interaction options
- Economical 24/7 operation thanks to lithium-ion technology
- Simple connection to ERP systems via Jungheinrich logistics interface

Your Jungheinrich high-lift AGV

for maximum customer benefits

Efficiency

Maximum performance with the most efficient automation solution.

Save valuable resources through the clever automation of transport tasks: the EKS 215a is a highly flexible all-round truck for sustainable optimisation of your processes.

Comprehensive automated components and precise navigation

- AGV based on series components for flexible automation – even in confined spaces.
- Optimum design to meet the requirements for automating manual processes in warehouses and production areas.
- Precise laser navigation using reflectors installed on the travel route – for maximum transport efficiency.

Compact design

- Extremely compact truck dimensions due to optimum combination of physical and virtual footprint.
- Perfectly suited to narrow working aisle widths (Ast) thanks to maximum manoeuvrability with low space requirement.

Lithium-ion technology

- 24-V lithium-ion technology with optional automatic charging.
- High availability thanks to extremely short charging times.
- Active energy and battery management.
- No battery exchange required.
- Zero maintenance in comparison with lead-acid batteries.
- No charging rooms or ventilation required as there is no build-up of gas.

Safety

Best conditions for working safely.

Everything in sight with 360° all-round visibility: our AGVs reliably scan the environment in your warehouse to ensure maximum safety on every journey, Optional scanners or warning fields offer even more protection in mixed operation.

Intelligent safety functions

- Depending on the speed and steering angle, standard personal protection scanners scan the travel route for obstacles in the drive direction and load direction.
- Protection against damage through integrated safety sensors below the truck frame.
- Smart safety concept with protective and warning fields for efficient layout planning.
- Truck stops automatically in front of obstacles in its path.
- Scanning ahead for obstacles when cornering.
- Emergency disconnect on the truck and emergency control panel.

High level of process reliability in the warehouse

- Quick overview of the status of pending transport tasks is possible on the control panel and on the HMI.
- Prioritised orders can be entered and processed in the corresponding order.
- Depending on the project-specific requirements, individual customer functions can be specially implemented and activated for the respective system.

Individuality

A forklift truck as individual as your business.

Create new opportunities for the future with an innovative and technically sophisticated AGV. The modular mast concept and variable equipment features allow configuration entirely in line with your requirements.

Wide range of applications

- Use in mixed operation, in a new build or integrated into an existing factory structure.
- Transport of special load carriers, closed pallets as well as the operation of stations that cannot be driven under using adjustable forks.
- Connection to existing WMS / ERP system via Jungheinrich logistics interface.

Intuitive interface

- Status display at a glance.
- 7-inch display with touch function: error codes and handling recommendations for efficient fault rectification.
- Manual intervention option by the operator: AGV can be sent to charge, park or a service location and orders can be specified directly on the display.

Extended mast grid and increased residual capacity

- Wide range of masts for flexible adaptation to the warehouse layout.
- Higher payload with smaller footprint and simultaneous increase in residual capacity.

Overview

The right solution for your applications:

Name	Load capacity/load	Lift height (max.)	Travel speed unladen	Aisle width (pallet 800x1200 length)	Lift speed unladen	Total height
EKS 215a	1500 kg	6000 mm	7 km/h	3300 mm	0.3 m/s	2730 mm

The German production facilities in Norderstedt, Moosburg and Landsberg are certified as well as our Genuine Parts Center in Kaltenkirchen.

ISO 9001
ISO 14001

Jungheinrich fork lift trucks meet European safety requirements.

CE

JUNGHEINRICH