



Automated Guided Vehicle System high rack stacker

EKX 514a / 516ka / 516a

Lift height: 11000-13000 mm / Load capacity: 1400-1600 kg

JUNGHEINRICH

The high performer in automated narrow-aisle warehouses.

For executing warehouse tasks at high lift heights.

Our powerful and modular EKX 516a excels as an Automated Guided Vehicle System (AGV-S) based on our proven EKX electric high level combination order picker/three-lateral stacker. The EKXa is characterised by maximum performance at lift heights up to 13,000 mm and sets benchmarks in automated narrow-aisle warehouses. Equipped with an 80-V drive system and a maintenance-free synchronous reluctance motor, it achieves new performance standards while reducing energy loss at the same time. Thanks to the optional integration of an on-board battery charger, bus bar and current collector, it is optimally prepared for 24/7 use. The field-tested wire guidance in combination with RFID transponders ensures precise positioning at the storage location as well as automatic aisle changes. With the option of automation in stages, you can benefit from maximum availability, efficiency and performance of your warehouse processes.

All benefits at a glance

- Gradual automation
- Maintenance-free synchronous reluctance motor
- Different options for pallet stacking and retrieval
- Optional on-board battery charger for 24/7 operation
- Planning, implementation and after sales support from a single source

Your Jungheinrich high platform forklift

For maximum customer benefit.



Efficiency

Maximum performance with the most efficient automation solution.

Our high performer for your high-bay racking: Thanks to a maintenance-free synchronous reluctance motor and 80-V drive system.

Established standard truck used as basis

- Standard truck EKX Series 5 high-rack stacker
- In combination with extensive safety technology as well as automation and navigation components.

Efficient drive technology and equipment

- 80-V drive.
- Maintenance-free synchronous reluctance motor.
- RFID reader for positioning in narrow aisles.
- Patented regenerative lowering and braking for maximum energy recovery during operation.
- Optional equipment with on-board battery charger, bus bar and current collector for efficient 24/7 use.



Safety

Best prerequisites for working safely.

Secure communication: The truck communicates with the important control systems via WLAN.

Process reliability in the warehouse

- Reliable wire guidance technology for safe driving anywhere in the warehouse.
- WLAN technology allows the truck to communicate with upstream management and control systems.

Everything in view with the FTS control console

- The graphic display on the AGV control panel displays all the information relating to the AGV in use.
- Depending on the project-specific requirements, individual customer functions can be specially implemented and activated for the respective system.



Individuality

An automated solution as individual as your business.

Welcome to the future: We offer proven and optimised basic trucks as the basis for your automation.

Precise navigation

- Millimetre-accurate positioning of trucks and loads at the defined stations.
- Project- and environment-specific design and implementation.

Gradual automation

- Successive automation for future-proofing your narrow-aisle warehouse.
- warehouseNAVIGATION for highly precise approach and positioning of trucks and loads at the defined stations to relieve the operator.
- Semi-automation with warehouseNAVIGATION boosts throughput by up to 25 percent.
- In fully automatic mode, autonomous manoeuvring in storage aisles and reliable completion of assigned transport and storage tasks.
- WLAN technology allows the truck to communicate with upstream management and control systems.

Overview

The right solution for your applications:

Name	EKX 514a	EKX 516ka	EKX 516a
Load capacity/load	1400 kg	1600 kg	1600 kg
Lift height (max.)	11000 mm	12000 mm	13000 mm
Retracted mast height (h1)	2955 mm	2955 mm	2955 mm
Overall width	1210 mm	1210 mm	1210 mm
Service weight (incl. battery)	6350 kg	6750 kg	7900 kg
Travel speed unladen	10.5 km/h	12 km/h	12 km/h
Travel speed laden	10.5 km/h	12 km/h	12 km/h
Voltage	80 V	80 V	80 V

The German production facilities in
Norderstedt, Moosburg and Landsberg
are certified.

ISO 9001
ISO 14001

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