

Automatic, reliable and offering great process security when carrying out warehouse tasks at high lift heights

Different options for pallet storage and retrieval

High level of safety and efficiency

Gradual automation

Planning, realisation and after sales from a single source



## **EKX 514a / EKX 516ka / EKX 516a**

### **Automated Guided Vehicle (AGV) Electric order picker/three-lateral stacker**

Our EKXa is an Automated Guided Vehicle – based on our tried-and-tested EKX electric order picker/three-lateral stacker. The EKXa excels with its high performance at lift heights up to 13,000 mm.

Equipped with an 80 volts drive system and a new maintenance-free synchronous reluctance motor, the EKXa sets new performance standards while at the same time reducing energy loss by as much as 10%. With top performance data at minimal energy consumption, it can operate for two shifts without a battery change, even in demanding applications. For more pallets per hour and even longer operating times. In addition, our Automated Guided Vehicle EKXa offers optional integration of an on-board battery charger, bus bar and current collector equipment for 24/7 operation.

Using our EKXa allows you to design much more efficient warehouse processes. Field-tested wire guidance in conjunction with RFID transponders ensures accurate positioning at storage locations, as well as automatic aisle changes.

Our EKX in all of its variants has been the industry benchmark for years, and with the option of automation in stages, it is entirely future proof. As a fully automated truck, the AGV demonstrates its strengths especially well in narrow aisles, even in standard routine tasks, it helps to save you time and money through greater efficiency and process security.

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# Benefit from the advantages



	EKX 514a	EKX 516ka	EKX 516a
Max. capacity	1,400 kg	1,600 kg	1,600 kg
Max. lift height	11,000 mm	12,000 mm	13,000 mm
Battery charging	Manual battery handling or bus bar		
Load handler	Swivelling fork		

## Mature standard trucks as a starting point

All of our AGVs EKXa are based on serial trucks from the EKX-5 series. These tried-and-tested standard trucks are then equipped with the relevant automatic system components, resulting in reliable and efficient AGV for warehouse tasks at high lift heights. In addition, the automatic variants offer many of the other advantages of the standard series:

- 80 volts drive system.
- Maintenance-free synchronous reluctance motor.
- Two RFID readers for range detection and positioning in narrow aisles.
- Patented regenerative lowering and braking for maximum energy recovery during operation.

## Gradual automation

The option of successive automation helps to ensure that you are always ready for the future. Gradually automate an existing manual truck to ensure that your narrow aisle warehouse is future proof. With semi-automation, you can achieve a 25% increase in throughput performance thanks to our multi award-winning warehouse NAVIGATION. Helping to relieve your drivers and ensuring highly precise approach and positioning at storage locations.

In fully automated mode, the EKXa moves around warehouse aisles as a fully autarchic AGV, processing its assigned transport and warehouse tasks with utmost reliability. WLAN technology allows the truck to communicate with upstream management and control systems.

## Everything at a glance – with the AGV control centre

The graphic display on the AGV control centre displays all the information relating to the AGV in use.

Benefits to you:

- Quick overview of the status of the AGV.
- Individual customer functions can be implemented and activated with ease according to project-specific requirements.

## Choice of energy systems

The EKXa is designed for conventional battery changes as part of maintenance and servicing. As an option, the EKXa can be equipped with an on-board battery charger, bus bar and current collector for efficient use around the clock.

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The German production facilities in Norderstedt, Moosburg and Landsberg are certified. **ISO 9001**  
**ISO 14001**

Jungheinrich trucks conform to the European Safety Requirements.



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