

Automated Guided Vehicles.

Automated high-rack stackers (AGV VNA).

2018



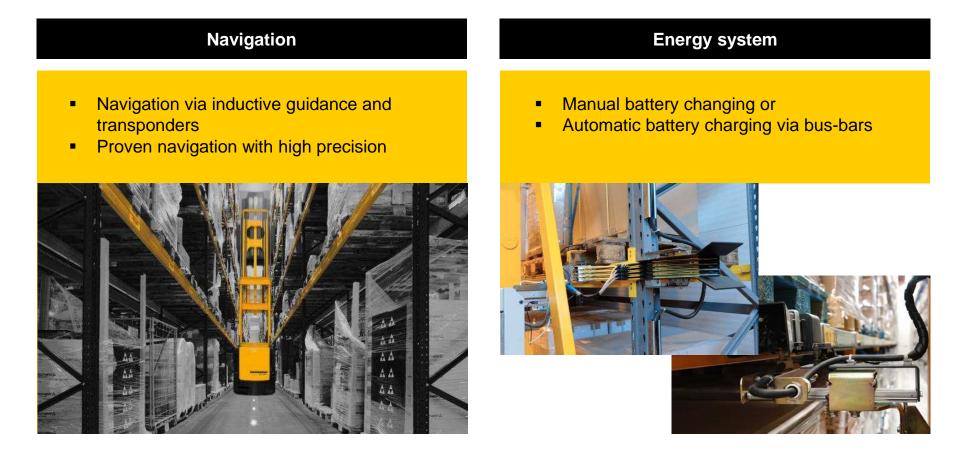


Our extensive portfolio offers the solution you need.

	Man-up truck EKX 516a/ EKX516ka/ EKX514a	FTX 515a
Max. car. capacity	1,600 kg	1,500 kg
Max. lifting height	13,000 mm	13,000 mm



Overview navigation and energy system.



Load handling devices.

Swiveling forks with fine positioning system



Telescopic forks for ETXa



Symmetric fork spreader as option on demand



Advantages AGV VNA operation.

- Efficient in multi-shift operation
- Possibility of stepwise automation
- Flexibility within the warehouse despite automation
- Possibility of operation in more rack rows with just one AGV VNA
- Efficient operation at limited warehouse heights



Customer benefits.

- Optimisation of total cost of ownership
- Flexible use due to stepwise automation: manual semi-automatic automatic
- Less wear in comparison to manual operation
- Whole system from a single source: Planning, Hard- and software, Implementation, After Sales Support

Man-Up EKXa for flexible use, e.g. ideal for inventory



Man-Down ETXa for highest energy efficiency in automatic operation



Selected references.



Our Customer Solupharm Pharmazeutische Erzeugnisse GmbH, Germany.

Customer requirements

- Take over of transportation/storage tasks
- Solution fitting to GMP guidelines

Jungheinrich Solution

- 2 ETXa man-down AGV VNA
- Warehouse feeding via conveyor system
- Jungheinrich WCS connected to Solupharm WMS
- Additional access to AGV VNA warehouse for warehouse feeding

Customer benefits

- More flexibility in using employees for administrative activities then for operational assignments
- Process reliability
- Damages and mistakes in warehouse operations tend to zero



Our Customer Coko-Werk GmbH & Co. KG, Germany.

Customer requirements

- Reliability in operation
- Warehouse safety

Jungheinrich Solution

- 3 ETXa man-down AGV VNA
- Warehouse feeding via conveyor system
- Wi-Fi Solution with directional antennas

Customer benefits

- More economic logistical processes
- Improved delivery capability
- Realisation of FiFo-principles
- Planning and realisation from a single source





