



# **Electric sideways-seated / tri-lateral stacker**

**ETX 513 / 515**

Lift height: 3000-13000 mm / Load capacity: 1200-1500 kg

**LI-ION**  
technology

**JUNGHEINRICH**

# The economical man-down stacker for narrow aisles.

**With sideways-seating for ergonomic working.**

Our flexible and powerful series 5 tri-lateral stackers are ideal companions for operations in central and upper high racking segments. As true professionals in narrow aisle warehouses they set new standards in terms of economy and ergonomics. Power and modularity build the foundation for fast turnaround, high flexibility and best use of space.

80-V 3-phase AC technology, an intelligent truck management system as well as a camera system for effective storage and removal of pallets in large lifting heights allow efficient work at the highest level. These high-bay stackers are also equipped for fully automated use.

Benefit from diverse configuration options with the Jungheinrich modular system - for optimum adaptation to your storage strategy. Features such as the informative colour display, softkeys to control functions and sideways seating configuration make working with the ETX a pleasure.



## **No worries. No compromise.**

With the Jungheinrich Li-ion Guarantee Plus, we give you a long-term performance promise of up to 8 years on our high-quality lithium-ion batteries, so you can completely concentrate on your tasks without worrying.



## **100% satisfaction. Guaranteed.**

We are convinced our lithium-ion technology is right for you. That's why we guarantee that you can easily and quickly switch back to the technology you originally used at any time within the first 6 months after delivery.

\* In accordance with our warranty terms - see website for details.

## **All benefits at a glance**

- Redundant height and distance measurement
- Easy connection to the WMS thanks to the logistics interface
- Modular with a variety of configuration options
- Camera / monitor system for safe stacking and removal
- Intelligent truck tracking via RFID technology (optional)

# Your Jungheinrich high rack stacker for maximum customer benefits.



## Efficiency

Maximum performance with the most efficient trucks.

Get ahead of your competitors: Choose advanced AC technology and doubled energy recovery.

### Efficient 3-phase AC technology

- High torque for maximum throughput and low energy consumption.
- Effective thermal economy and reduced maintenance and wear.
- Excellent acceleration, rapid lift, dynamic ancillary movements.
- Quiet swivelling reach system with high reaching speed.
- Travel direction and height-dependent diagonal travel speed profiles.
- Fast working cycles with synchronised swivel (optional).

### Cost-effective energy management

- Doubled energy recovery through regenerative braking and lowering.
- Longer operating times with one battery charge (up to 2 shifts).
- Shorter charging times.
- Active energy / battery management.
- Longer battery life.
- Battery rollers for rapid battery replacement.

### Available with lithium-ion technology

- High availability thanks to extremely short charging times.
- No battery exchange required.
- Saving costs due to longer service life and zero maintenance as compared to lead-acid batteries.
- No charging rooms and ventilation required as there is no build-up of gas.



## Safety

Best prerequisites for working safely.

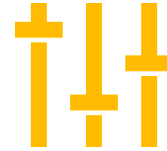
You have reached your destination: Trust our RFID technology - the best warehouse navigation in the narrow aisle.

### RFID ground control

- Truck control with transponder technology.
- Permanent route measuring for precise identification of all warehouse areas.
- High flexibility regarding switching and safety functions (end of aisle control, lift/travel cutouts, speed reductions).
- Travel speeds optimised according to the floor topology.

### warehouseNAVIGATION (optional)

- Linking the EFX to a warehouse management system (WMS) using a radio data terminal or scanner.
- Direct acceptance of the destination in the narrow aisle by the truck computer.
- Automatic vertical and horizontal positioning.
- Effective twin cycles.
- RFID location detection prevents trucks travelling to incorrect destinations.
- High level of flexibility in the warehouse with adaptation to existing WMS.
- Throughput improved by up to 25%.



## Individuality

A forklift truck as individual as your business.

High performance in high racks: The ETX offers best conditions for maximum throughput and high availability.

### Control and CAN-Bus system

- All movements can be parameterised.
- Electronically controlled drive wheel brake and wear-free electromagnetic multi-plate brake on the load wheels (ETX 515).

### Commissioning and maintenance

- Quick and reliable commissioning through teach-in process.
- 1000 operating hours service interval.
- Electronics with wear-free sensor system.
- Gear oil in maintenance-free swing bearing does not require replacement during life of the part.

### Reliable operation – high availability

- Robust and maintenance-free 3-phase AC drives with wear-free parts.
- 70% fewer cables and plugs due to CAN-Bus.
- Extremely torsion-resistant mast for high residual capacities and low mast sway.

# Overview

The right solution for your applications:

Name	Load capacity/load	Lift height (max.)	Travel speed unladen	Lift speed unladen
ETX 513	1250 kg	10000 mm	10.5 km/h	0.46 m/s
ETX 515	1500 kg	13000 mm	10.5 km/h	0.46 m/s

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

ISO 9001  
ISO 14001

Jungheinrich fork lift trucks meet  
European safety requirements.



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