

ORDER PICKING and narrow aisle truck



Systems Approach to Warehouse Logistics

INNOVATIVE • ECONOMICAL • RELIABLE

Innovative engineers must be creative with their design of order picking very narrow aisle forklifts. On the one hand, the vehicles must meet the rigorous industry standards, while on the other they must be flexible to meet the space and material transport requirements of the individual customer. Compact, powerful, manoeuvrable – and above all adaptable to the customer's specific environment. Our answer to these requirements: the EK series of Man-Up Turret Trucks.



EK 2000, EK 1500, EK 1350, EK 1300, EK 1200, EK 1100. The perfect solution for unit load storage and individual article order selection. Since the operator rides up with the load to the desired storage location, he is afforded an equally good view of the load and its rack destination. Thanks to a thorough design concept and modular engineering, the adaptation to customer specific transport needs are made simple. With a minimum frame width of 1.000 mm and a maximum lift height of 17 m, the EK series offers the optimum space utilization. Capacities range from 1.100 kg to 2.000 kg. Top truck performance and ergonomically designed and spacious operator cabin keep the EK operating at peak performance with minimum maintenance costs. Many different operator consoles and cabins are available to suit the application.

Compare!

**WE LOOK FORWARD
TO BUILDING
A TRUCK FOR YOU**

7 MODELS TO MEET YOUR NEEDS



EK 1100

Capacity to 1.100 kg
Lift Heights to 9 m
2 Stage or 3 Stage Masts
SEM or AC Drive Controls
48 Volt or 80 Volt



EK 1200

Capacity to 1.200 kg
Lift Heights to 10 m
2 Stage or 3 Stage Masts
SEM or AC Drive Controls
48 Volt or 80 Volt



EK 1300

Capacity to 1.300 kg
Lift Heights to 10 m
2 Stage or 3 Stage Masts
SEM or AC Drive Controls
48 Volt or 80 Volt



EK 1350

Capacity to 1.350 kg
Lift Heights to 12 m
2 Stage or 3 Stage Masts
SEM or AC Drive Controls
80 Volt



EK 1500

Capacity to 1.500 kg
Lift Heights to 15 m
2 Stage or 3 Stage Masts
SEM or AC Drive Controls
80 Volt



EK 1500 XL

Capacity to 1.500 kg
Lift Heights to 17 m
2 Stage or 3 Stage Masts
SEM or AC Drive Controls
80 Volt



EK 2000

Capacity to 2.000 kg
Lift Heights to 15 m
2 Stage or 3 Stage Masts
SEM or AC Drive Controls
80 Volt

Ergonomical and Comfortable

COMFORTABLE • SAFE • EFFICIENT

FOR EVERY REQUIREMENT – THE RIGHT CONSOLE



Decades of practical experience building narrow aisle vehicles and providing customer specific solutions are best demonstrated with the ergonomic work environment offered the operator. The spacious cabin allows for a large range of movement for the order picking process. The multifunctional control centre houses an easy to read graphics display and the controls are within easy reach. The layout of the control centre is intuitive and simple to understand. Naturally the control centre can be reached from a standing or sitting position. The control centre is positioned to suit the individual operator. In addition to the low cabin entry and wide gates, an extensive variety of options enhance the functionality and comfort of the vehicle. Numerous document / tool holders, a thick cushioned floor mat and choice of seats are available. This includes air cushioned and lumbar adjustable support with tilting arm rests. A large rear cabin window and angled motor compartment give operator excellent visibility.



Console with twist controls

Modern and ergonomic with duplicate controls



Operation with Joy Stick Controls

Standard Version



Multifunction Control Handle

For fast operation with single control handle



Split operational console next to the seat

Clear access for order picking

Options:

- ▶ PIN-Code-Access
- ▶ Service interval indication
- ▶ CAN-Bus connection for external input devices
- ▶ Lift height indication with positioning system
- ▶ Colour display

Computer optimized for maximum productivity

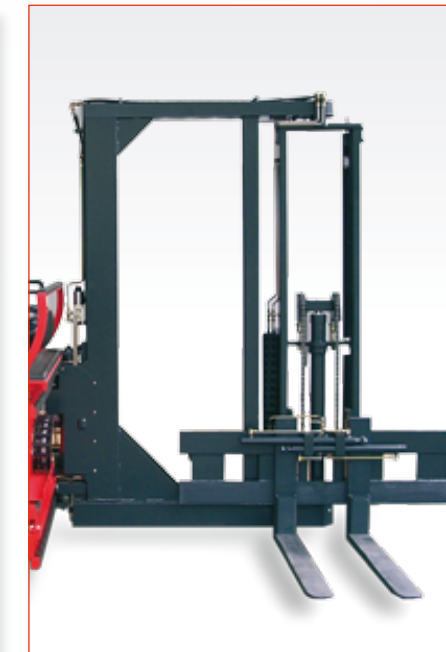
STRONG • LIGHT WEIGHT • ECONOMICAL

**SPECIFIC SOLUTIONS FOR DIFFERENT
LOAD HANDLING REQUIREMENTS**



Mast in SGO-Construction:

With the latest technology available, masts are designed for maximum stability while maintaining lower weights. This allows us to provide maximum lift heights and performances while minimizing energy consumption. With the specially designed lighter weight mast – the centre of gravity of the truck remains low allowing for better performance. Two stage and three stage masts both provide excellent visibility through the unique bracing system. The three stage mast is available with or without full free lift. This applies to all trucks in the EK series.



The 180 degree rotating fork (turret) attachment is the most popular and most flexible attachment. For heavy duty applications – including very long or wide loads, or for very heavy loads – we offer a turret attachment that is reinforced by guiding on the overhead guard.



The Telescopic Fork Attachment can operate in smaller aisles, but must use single sided pallets and cannot pick up or deposit from the floor.

The EK series trucks

are designed to suit the individual application

COMPACT • WIDE • HIGH



The EK series trucks maximize your storage by providing chassis and attachments built specifically to your needs. Short, long, wide, or narrow frames are all available. Cabins and chassis are built to exact requirements – so that the best possible space utilization is achieved.

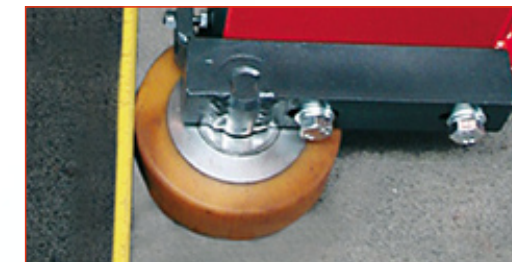
Dual Load Wheels are available to lessen floor pressure and provide a smoother ride.



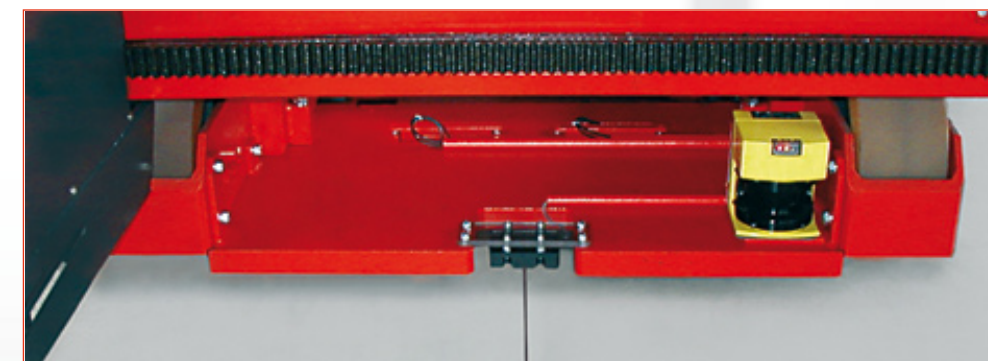
SAFE GUIDANCE OPTIONS FOR HIGH SPEED OPERATION

RAIL GUIDANCE • WIRE GUIDANCE

Both systems have been successfully utilized for decades. Customer application should determine the right guidance. The low profile guide rollers allow placing pallets on the floor when using a low silhouette rail. This is now also available on the EK 1500 XL and EK 2000.



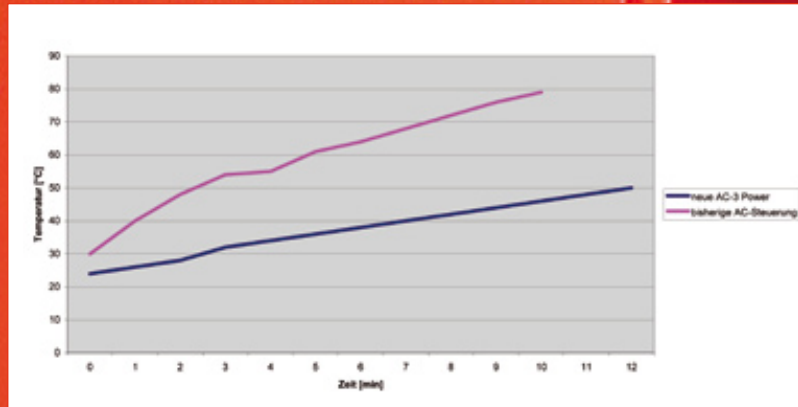
Rail guidance for top speeds in smallest aisles



A wire guided truck does not require the use of guide rails

Well protected sophisticated Drive System

ECONOMICAL • PRECISE • SERVICE FRIENDLY



All EK series trucks, from the small EK 1100 to the heavy duty EK 2000 are available with SEM or AC Drive Controls. The EK 1100 and EK 1200 are available with either 48V or 80V electrical system, and the larger models are all 80V units. Minimum energy usage, high throughput and a long life are very important. The operational controls are therefore critical. The EK series uses of the latest technology available in forklift design to allow the use of lighter chassis, while actually increasing stability. This provides the best possible use of energy consumption and maximizes operational cycles, allowing these trucks to operate with smaller batteries – or last longer per battery cycle.

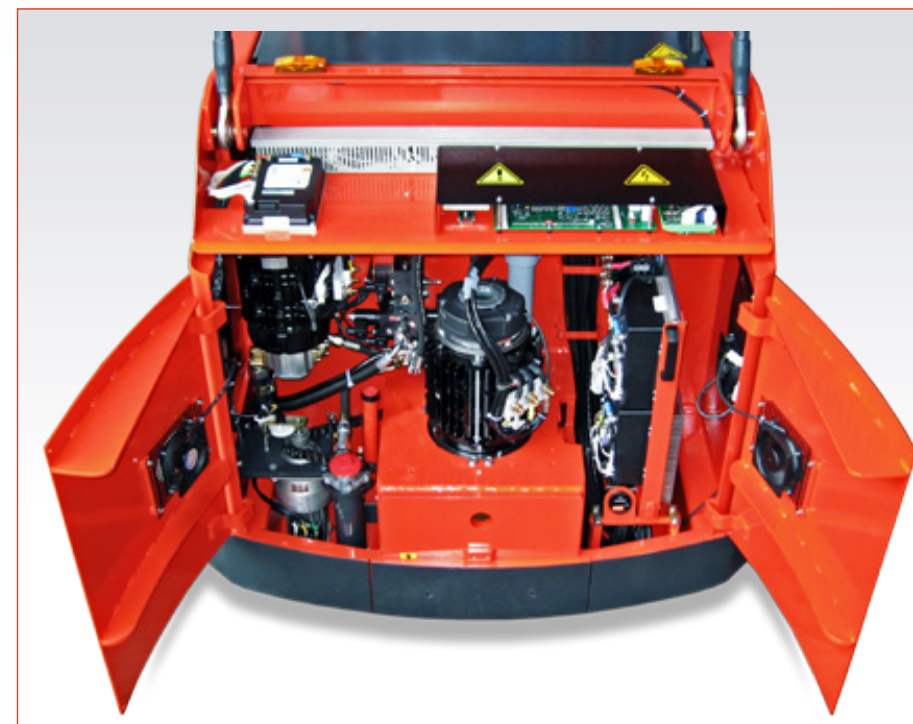
Highlights

- ▶ 4th Generation AC-Technology, 40% less heat loss
- ▶ Microcontroller with "Solid State Technology"

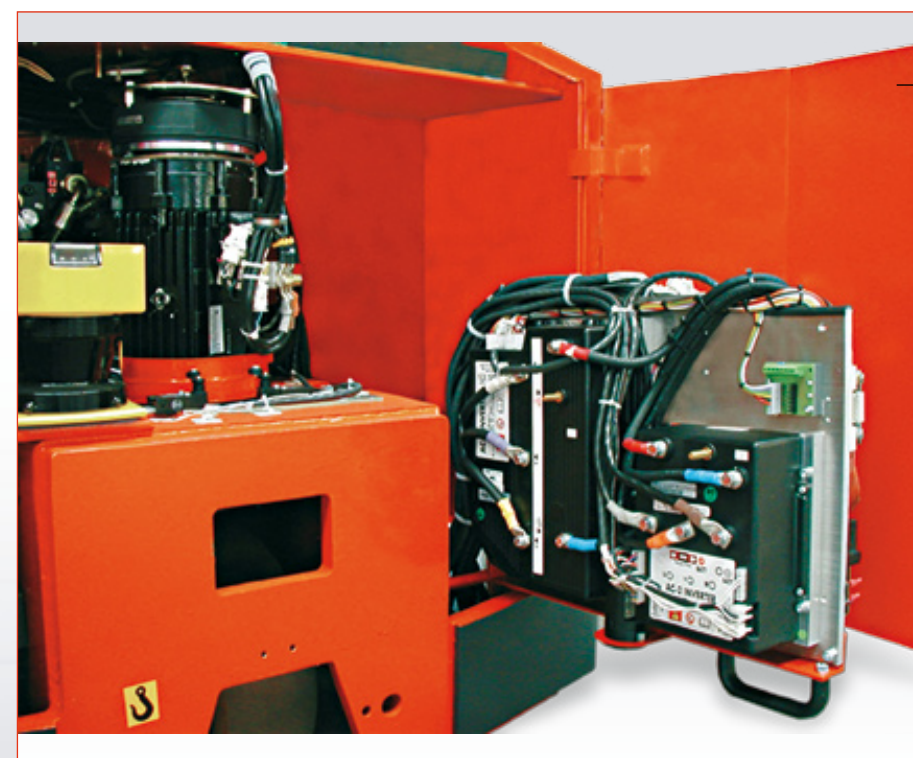
Options:

- ▶ GSG2-Controller for linear speed profiles with weight acquisition and programming of different lift cut out
- ▶ RFID-Technology
- ▶ Diagnosis by GSM

OPTIMUM PROTECTION AND ACCESSIBILITY



Controls can be accessed without truck specific tools or software. All models have the same board layout. This allows exceptional parts interchange ability for best possible parts and service support. The design of the control systems allows upgrades to be added – even after the trucks have been in operation for years.



Open Motor Compartment

Thick steel doors protect vital components.



FOR EACH APPLICATION the Right Truck

