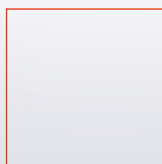
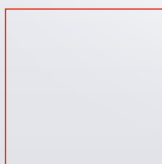


ORDER PICKING and narrow aisle truck



Systems Approach to Warehouse Logistics

INNOVATIVE • ECONOMICAL • RELIABLE

Innovative engineering must incorporate creative design with functionality and maintenance. On the one hand, the vehicles must meet rigorous industrial standards, on the other they must be flexible enough to meet the space and material transport requirements of the individual customer. Introducing the compact, powerful, manoeuvrable – and above all adaptable EK series of Man-Up Turret Trucks. EK 1100, EK 1200, EK 1300, EK 1350, EK 1500, EK 2000.

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. The EK series offers optimum space utilization. EK models start with a minimum frame width of only 1.000 mm and can handle lift heights of over 17 m. Capacities range from 1.100 kg to 2000 kg.

An ergonomically designed vehicle fitted with a spacious operator cabin is built for peak and enduring performance. Cutting edge technology keeps the EK operating at peak performance with minimum maintenance costs. Many different operator style consoles and cabins are available to suit the application.



Allow us to compare!

**AND PROVIDE A SOLUTION FOR
YOUR APPLICATION!**

7 MODELS TO MEET YOUR NEEDS



EK 1100

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



EK 1500

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



EK 1500 XL

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



EK 2000 (HL*)

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

*EK 2000 HL for very heavy application

Ergonomical and Comfortable

COMFORTABLE • SAFE • EFFICIENT



A comfortable and safe work environment enhances operator efficiency. The spacious cabin, carpet covered walls, thick cushioned floor, and built-in document / tool holders provide the basics and also allow for a large range of movement for the order picking process. The multifunctional control console houses an easy to read graphics display and the easy reach operational controls. The layout of the control centre is intuitive and simple to understand. The enclosed secure cabin protects the operator from harm. Naturally the control centre can be reached from a standing or sitting position. The control centre is positioned to suit the individual operator. An extensive list of available options include a choice of seats with features such as air cushioned, lumbar adjustable support with tilting arm rests, downward folding seat cushion with standing operator back support and more. A large rear cabin window and angled motor compartment give an operator excellent visibility.

Options:

- ▶ Swivel seat
- ▶ Air suspension seat
- ▶ Lengthen cabin
- ▶ Rail for fixing equipment
- ▶ Swivel side gates



FOR EVERY REQUIREMENT – THE RIGHT CONSOLE



Console with Ball Handle Bar

Ergonomic operation with multifunction bar and duplicate controls



Console with twist controls

Operation with rotary switch and duplicate controls



Operation with Joy Stick Controls

Standard Version



Multifunction Control Handle

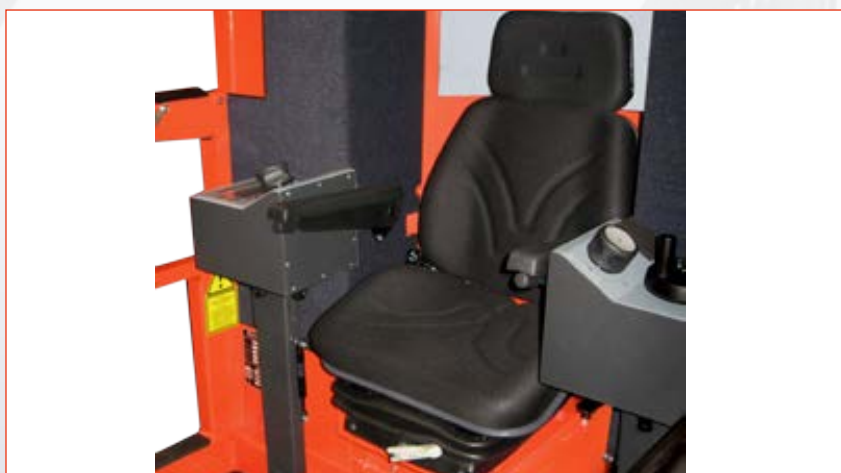
For fast operation with joy stick

Split Operation Console next to the seat

Clear access for order picking or if a gate is needed at the front

Options:

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



Computer optimized for maximum productivity

STRONG • LIGHT WEIGHT • ECONOMICAL



Mast in SGO-Construction:

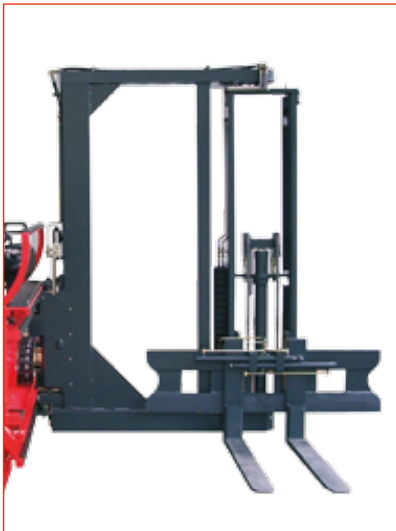
The patented design provides for maximum stability while maintaining lower production weights. This allows greater lift heights and higher performance while minimizing energy consumption. The specially designed stronger yet lighter weight mast ensures that the trucks centre of gravity remains low for better stability. Two stage and three stage masts both provide excellent visibility through the unique bracing system. The three stage mast is also available with or without a full free lift option.



Options:

- ▶ Special closed heights
- ▶ Full free lift
- ▶ Closed inner mast

SPECIFIC SOLUTIONS FOR DIFFERENT LOAD HANDLING REQUIREMENTS



The 180 degree rotating fork (turret) attachment is the most popular and most flexible attachment. Styles include designs for very heavy duty applications – including very long, wide or heavy loads. We offer a turret attachment that is built to suit the application.

Options:

- ▶ Hydraulic fork adjustment
- ▶ Side shifter
- ▶ Scales
- ▶ Telescopic forks for double deep stacking
- ▶ Simultaneous lift of initial and cabin lift



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

Options:

- ▶ low height of forks (190 mm)
- ▶ Initial lift as two stage mast with full free lift



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 specifically built to fill your needs. Short, long, wide or narrow frames to match your load and aisle requirements. Cabins and chassis are built to exact specifications – so that the best possible space utilization is achieved.

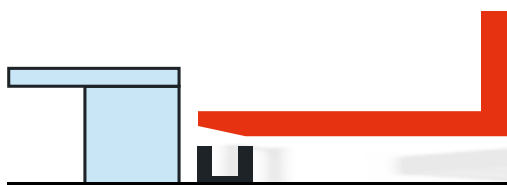
Dual Load Wheels are available to lessen floor pressure and provide a smoother ride.



SAFE GUIDANCE OPTIONS FOR HIGH SPEED OPERATION

RAIL GUIDANCE • WIRE GUIDANCE

Both rail and wire guidance systems are proven tracking methods for narrow aisle vehicles. The application normally determines the guidance method. Special low profile guide rails offer handling of skid type pallets from the floor.



Rail guidance for top speeds in smallest aisles

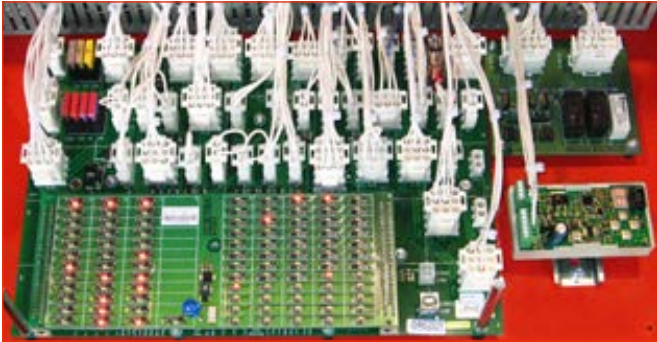
Options:

- ▶ Guidance at a single rail
- ▶ Guidance for life racks

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

Well protected sophisticated Drive System

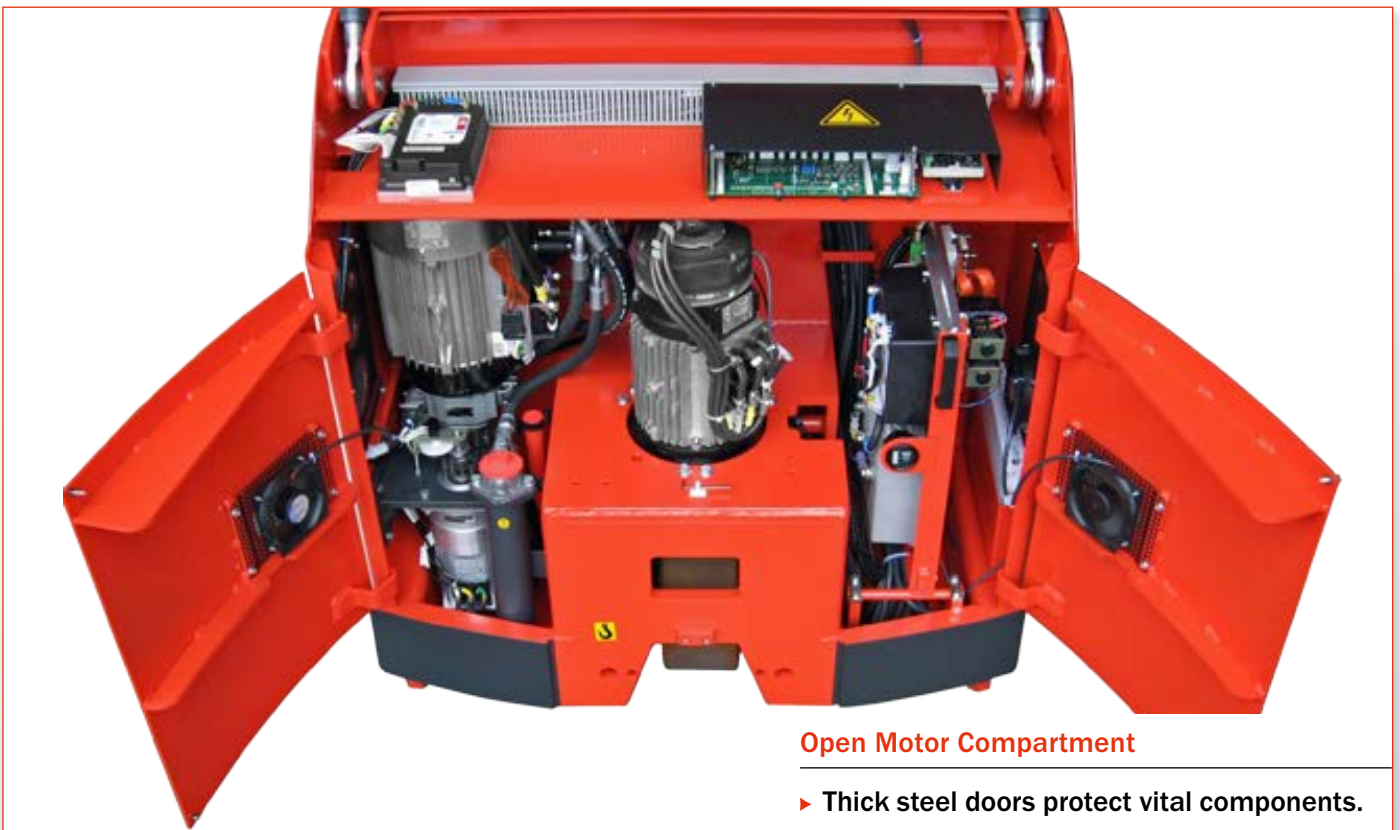
ECONOMICAL • PRECISE • SERVICE FRIENDLY



Highlights

- ▶ 4th Generation AC-Technology, 40% less heat loss
- ▶ Microcontroller with "Solid State Technology"
- ▶ Fast diagnostic without any special tools

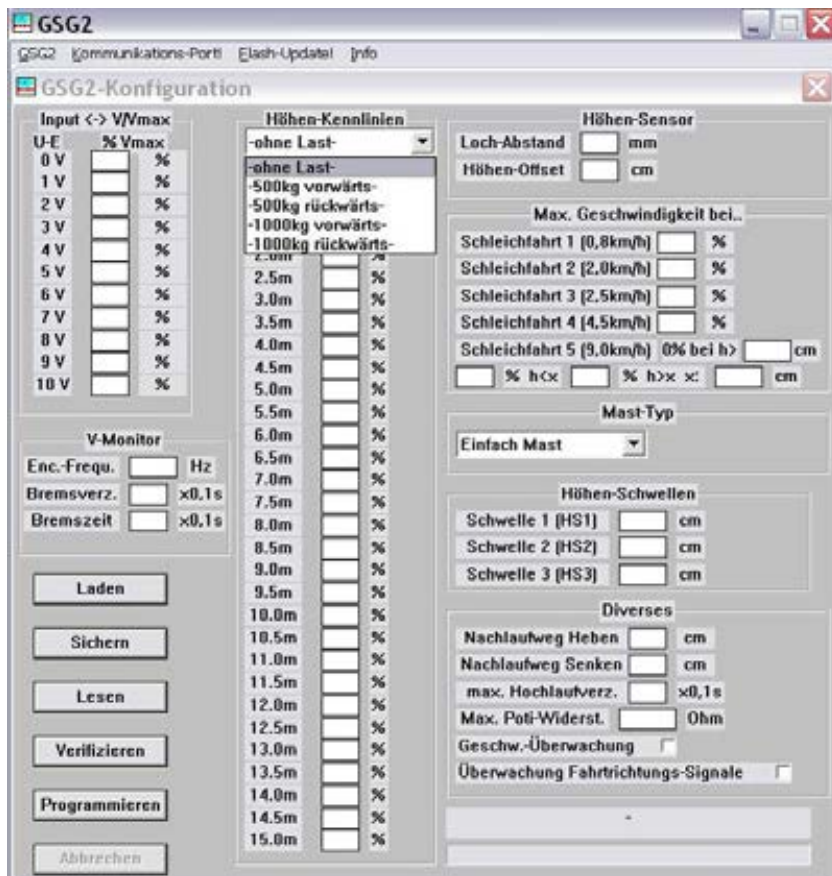
All EK series trucks, from the small EK 1100 to the heavy duty EK 2000 are available with AC controls. The EK 1100 to EK 1300 are available with either 48V or 80V electrical systems, and the larger models are all 80V units. Minimum energy usage, high throughput and long life cycles are very important. We utilize the finest components to bring you the most productive and safest truck available. The EK series demonstrates the use of the latest technology available in forklift design, to allow the use of lighter chassis, cabins and masts while actually increasing vehicle 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.



Open Motor Compartment

- ▶ Thick steel doors protect vital components.

OPTIMUM PROTECTION AND ACCESSIBILITY



Controls can be accessed without truck specific tools or software. All models have the same electronic components and interface points achieving exceptional parts interchange ability for best possible parts and service support. The open design allows customizing and upgrades – even years after the vehicles have been in operation.

Options:

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



FOR EVERY APPLICATION

the Right Truck



Options:

- ▶ Navigation system
- ▶ Automated guided vehicles
- ▶ Automatic stacking and retrieving
- ▶ Height preselection
- ▶ Cold store application
- ▶ Explosion prevention conversions

