

Are you looking for a compact solution for fast throughput?

We offer you manoeuvrable electric three wheel counterbalanced fork lift trucks with capacities of 1,000 and 1,500 kg.

**JUNGHEINRICH**
Machines. Ideas. Solutions.



Small and compact on the outside.

Large and spacious on the inside.

Are you looking for high performance and maximum manoeuvrability at a great price? Then you should take a look at our EFG 110–115 rear-wheel drive three-wheel fork lifts. The consistent use of microprocessor-controlled 3-phase AC technology has enabled us to break records in both performance and costs. Extreme

manoeuvrability guarantees compact dimensions with a truck width of just 990 mm as well as the 1-motor rear-wheel drive which powers the EFG 110–115 very economically. Performance and Economy working together. Over the following pages we show you how this achieved. The final proof. Why not take a test drive?





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EFG 110

Trucade
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Advantage: 3-phase AC technology.

Raise your performance levels while lowering your operating costs.

3-phase AC technology has proven itself time after time

Three-phase AC current an alternating current from a regular power supply. Three-phase AC motors feature a significantly reduced number of components and wearing parts and operate more reliably and cost-effectively while providing significant increased output.

The design of a 3-phase AC motor is simpler than that of a series or shunt wound motor and can be manufactured significantly smaller. The magnetic field is formed in the stator and not the rotor. Heat from the motor originates outside not inside.

Advantage 1:

No current has to be transferred to the rotor – there are no carbon brushes or collectors.

Advantage 2:

The motor does not require internal ventilation and can be enclosed for protection.

We have developed electric fork lifts utilising 3-phase AC technology

Using high-performance frequency inverters, we succeeded at the beginning of the 1990s in economically converting direct current into 3-phase alternating current. This has enabled us to utilise the advantages of 3-phase AC technology for electric fork lifts. Disposing of collectors and carbon brushes, along with the associated enclosure of the motor, has opened up new areas of application for electric fork lifts as well as significantly reducing operating costs. Consequently, we now equip all classes of fork lift with 3-phase AC technology.



Shunt or series wound motors
with carbon brushes and collectors



3-phase AC motor completely
enclosed, no wearing parts



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**3-phase AC current advantage 1:
More performance and more torque**

High torque even at low speeds, no drops in torque level and no loss of speed, even with high demands, guarantee dynamic travel and maximum throughput – without the usual ‘time lag’ when changing direction. The advantage for you: Up to 25 % faster goods throughput. In practice, this means time savings or potential fleet reduction.

**3-phase AC current advantage 2:
High efficiency ratio and energy recovery**

Does increased power also mean increased consumption? Not with our trucks. Their optimised efficiency and regenerative braking to a complete halt, with up to 30 % of the energy fed back into the battery, enable our trucks to work for longer with a single battery charge. The advantage for you: In many cases, there is no need for a large charging station or replacement batteries.

**3-phase AC current advantage 3:
Enclosed/closed motors**

Our IP 54 rated enclosed electric motors enable the trucks to be used in environments that were once the sole domain of IC motor trucks. Our three and four-wheel trucks with 3-phase AC motors are not affected by dust, water or chemicals.



3-phase AC current advantage 4:

Wear-free brakes

When accelerating, the 3-phase AC technology ensures the same high torque as with braking. The result: The truck is very responsive – the speed is precisely controlled by the accelerator. Ideal for pinpoint positioning, dynamic acceleration and moving on ramps at a constant speed. The hydraulic drum brake should only be used as a safety measure in moments of danger.

The advantage for you:

1. Your operator does not have to frequently change from the accelerator to the brake pedal.
2. The electric braking reduces the expenditure on brake wear and maintenance.

3-phase AC current advantage 5:

Fewer wearing parts, less maintenance, lower costs

3-phase AC motors are maintenance-free: Carbon brushes are not required, along with travel direction switches, braking is wear-free without stressing the mechanical braking system. The advantage for you: You save operating costs during the entire service life of your fork lift while simultaneously enjoying access to a reliable, energy-saving, yet high-performance truck.



We supply ergonomic solutions. Making life easier for your operator, and their work more efficient.



Everything under control with the Comfort Display

The Comfort Display (optional) with digital hourmeter and battery discharge indicator with lift cutout offers your operator a total of five individually adjustable travel programs, each of which offers different acceleration, limit speed and brake levels. Acceleration from 'gentle' to 'maximum' and braking from 'sparing' to 'powerful'. Other advantages: Detailed plain text displays for monitoring individual operating conditions. Rapid and efficient maintenance by simply checking the service data log.



All set with the SOLO-PILOT control lever

The SOLO-PILOT (standard equipment) combines the functions of lifting/lowering, travel direction switch and horn in one control lever. The additional functions of forward/backward tilting, sideshift (optional) and additional hydraulics (optional) are operated with the levers positioned directly in line.



Everything under control with the MULTI-PILOT control lever

The MULTI-PILOT (optional) combines all drive and hydraulic functions in one central control lever. All control commands can easily be initiated without having to move the hand. The hand rests easily on the ergonomically optimised handle. MULTI-PILOT even enables several hydraulic functions to be controlled at the same time.

Increased performance with less stress.

Enabling your operator to control every situation.



Steering

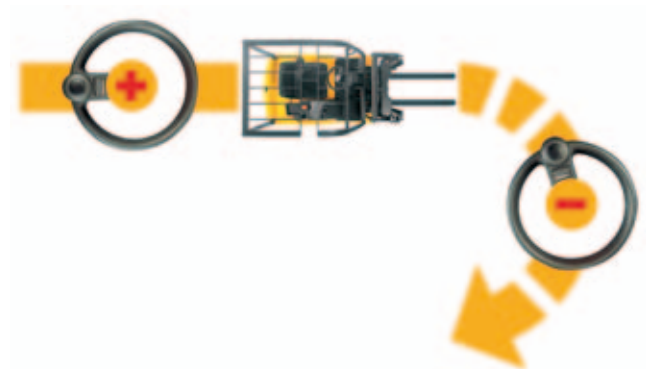
Our hydraulic steering does not operate with a chain, as is the case with comparable fork lift trucks, but instead uses a wear-free and maintenance-free spur gear. As a completely closed system, it guarantees the precise, safe transfer of power, similarly to a cardan drive.

Simple battery maintenance

Quickly fold back the seat for direct access to the battery. The one-piece design of the battery lid, completely eliminates the need for separate side pieces.

Jungheinrich Curve Control

Curve Control (optional) automatically reduces the travel speed when cornering, as a function of the steer angle. The electric braking applies irrespective of the travel program selected and keeps the centrifugal forces acting on the operator, load and truck to a consistently low level. The advantage: The risk of a hazardous build-up of forces and even your truck tipping over can be effectively reduced.





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EFG 115

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Comfort high roof

At 2,090 mm (h_6), the comfort high roof guarantees plenty of headroom. Specially designed for container applications, the EFG 110–115 is also available with a 1,970 mm (h_6) 'container roof' (optional).





Maximum manoeuvrability

The rear wheel drive enables the compact EFG 110–115 to turn on the spot.

Very maintenance-friendly

Maintenance intervals of 1,000 operating hours or, for safety reasons, every six months save you money in the long term.

Safety at first glance through our panoramic mast

The configuration of the lift cylinder behind the narrow mast profiles, combined with the divided fork carriage, ensures an excellent view of the forks or load at any lift height.

Yes or no?

Investment decisions are simple, but not straightforward. We compile the facts that make it easier for you:

BestInvest

Our electric three wheel counterbalanced fork lift trucks will reduce your long-term operating costs by up to 20 %. With a wide range of technological and ergonomic advantages that reduce all of the expenses making up the Total Cost of Operations (TCO) to minimum levels, from purchase to disposal. We call this promise BestInvest. It helps you transform your costs into profitable investments. So that you can make the best total investment decision.

The right racking for the right truck

We can provide you with the complete solution for this: Integrated warehouse planning, where the racking and the trucks work 'hand in hand' as parts of a single system. From project planning through CAD drafting to handover. From modular racking systems through system platforms to high-bay racking. From consultancy through installation to service. We offer a one-stop shop.

A dedicated service network

Service engineers are available for you throughout the UK. Each one a Jungheinrich professional: Mechanical engineer, electrician, electronic and hydraulic specialist all rolled into one. And they'll generally be with you within four hours.

In-house financial services

We offer you a wide range of tailored solutions to suit your commercial, financial and balance sheet requirements – even if these should change over time. This will allow you to keep on the move and respond flexibly. Your area sales manager will be happy to work out which solution is best suited to your needs.

Double digit decrease in CO₂ emissions over 10 years

We have drastically reduced the CO₂ emissions for our entire truck range over the last ten years. And by more than 25 % for electric and diesel/LPG fork lift trucks. And by more than 35 % for vertical order pickers and narrow aisle/reach trucks. We have done this with a series of technological innovations which are currently setting the standards for CO₂ emissions.

Significantly reduced CO₂ emissions also mean significantly reduced energy costs

Our entire product cycle now features technical innovations for reducing CO₂ emissions, from manufacturing through usage to reconditioning. And our high-tech solutions are really setting standards in the usage phase, which is where 80–90 % of all emissions occur. You can easily use this advantage to your benefit, immediately reducing your energy costs considerably while simultaneously achieving maximum throughput rates. www.jungheinrich.com/oekobilanz

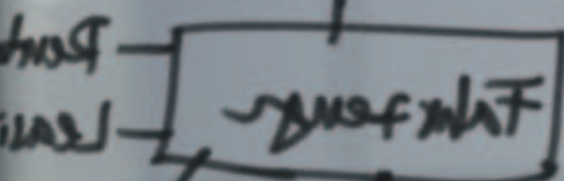
TÜV-certified product life-cycle assessment

TÜV-Nord has systematically analysed the life-cycle assessment and certified it in accordance with DIN EN ISO 14040, giving us the environmental rating "Geprüfte Produkt-Ökobilanz" [Certified Product Life-cycle Assessment].





Opt. Performance



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

 Jungheinrich trucks
conform to the European
Safety Requirements.

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