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Electric 3-wheel counterbalance truck EFG 110-115

1000/1250/1500 kg capacity



Jungheinrich
Plants, Sales and
Services Europe
ISO 9001/ISO 14001



Jungheinrich trucks
conform to the European
Safety Requirements.

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JUNGHEINRICH
Machines. Ideas. Solutions.



Small and compact design. Spacious and comfortable to operate.



Excellent performance with high efficiency, plus incredible manoeuvrability at the same time. These are the outstanding advantages of the rear drive 3-wheel counterbalance EFG 110–115. Excellent performance and high efficiency due to constant application of the microprocessor controlled 3-phase



AC technology. Incredible manoeuvrability through compact dimensions with a truck width of only 990 mm. The rear motor that drives the EFG 110–115 is highly economical too. We will highlight the benefits on the following pages and with pleasure on a demonstration.



Advantage: 3-phase AC technology.

Highest productivity with operating costs at a minimum.

3-phase AC technology – Proven technology

3-phase AC current is a type of alternating current from the regular power supply system. Tried and tested numerous times in all areas of industry. The respective 3-phase AC motors distinguish themselves through a significantly reduced number of components, working parts and therefore operate clearly more efficiently, reliably and cost-effectively.

Jungheinrich has made electric trucks “ready for 3-phase AC technology”

Through applying powerful frequency converters, Jungheinrich was successful during the early 90’s in converting direct current into 3-phase current at an economic cost, thus applying the advantages of 3-phase AC technology to electric trucks. The omission of carbon brushes and the enclosure of the motor ensured new application possibilities for electric counterbalance and a significant reduction in operating costs. Today, Jungheinrich installs 3-phase AC technology in all truck categories.



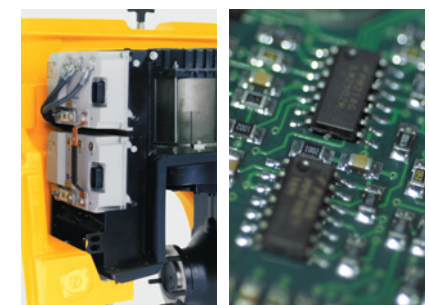
shunt-wound or series-wound motor with carbon brushes and collector



3-phase AC motor completely enclosed, no wearing parts

The construction of a 3-phase AC motor is simpler than that of a shunt-wound motor and can be built in a much more compact design. The build-up of the magnetic field does not occur in the rotor but instead in the stator. The motor heat is created outside instead of inside. Advantage 1: Current does not need to be transferred to the armature / rotor – collector and carbon brushes are not required.

Advantage 2: The motor does not need to be ventilated from the inside and can be enclosed for protection.





3-phase AC advantage 1:

More productivity and more torque
 High torque in the lower speed range, no torque gaps and no speed loss, even in rigorous applications. Ensures dynamic travel characteristics and highest throughput efficiency – without the usual delay when changing travel direction. Your benefit: up to 25 % faster goods throughput. In practical terms this means saving time or even a reduction in the truck fleet.

3-phase AC advantage 2:
High productivity and energy reclamation

More efficiency also means more consumption? Not at Jungheinrich. Through optimised performance efficiency and regenerative braking to a total standstill during which up to 30 % energy is fed back into the battery, the trucks achieve more working cycles with one battery charge. Your benefit: In many cases there is no need for a large charging station or battery changing.

3-phase AC advantage 3:
Enclosed/closed motors

The electric motors enclosed according to IP 54 permit application in environments where previously only IC engine trucks could operate. Neither dust, water or chemicals can prevent the Jungheinrich 3-wheel or 4-wheel counterbalance with 3-phase AC motors from operating.

3-phase AC advantage 4:
Wear-free braking

3-phase AC technology ensures the same high torque during acceleration as during braking. The result: Travel speed is exactly prescribed via the travel pedal. Ideal for precise positioning, dynamic acceleration and travelling on ramps at a constant speed. The hydraulic drum brake is a safety feature for hazardous moments and increased safety.

Your benefit:

1. There is no need for the driver to constantly switch his foot from travel to brake pedal.
2. Through electronic braking, costs for brake wear and maintenance are reduced.

3-phase AC advantage 5:
Fewer wearing parts, less maintenance, reduced costs

3-phase AC motors are maintenance-free: Carbon brushes as well as travel direction contactors are not required, braking occurs wear-free without strain on the mechanical braking system. Your benefit: You are saving operating costs during the entire truck life and at the same time have at your disposal a reliable, energy-saving high-powered counterbalance truck.



Work with less effort and more efficiency.

Ergonomic solutions for outstanding operator-friendliness.



Everything under control with Comfort Display

The Comfort Display (optional) with digital operating hour meter and battery discharge indicator with lift cut out provides the operator with a total of 5 individually adjustable travel programs with differences in acceleration, end speed and braking characteristics. Acceleration from "soft" to "maximum" and braking from "gentle" to "precise". Other advantages: detailed clear text displays to monitor individual operating conditions. Fast and economic maintenance through fault diagnostics and the service data memory.

Ready to start with the SOLO-PILOT operating lever

The SOLO-PILOT (fitted as standard) combines the functions lifting/lowering, travel direction selection and horn in one control lever. The other functions forward/backward tilt, sidsheft (optional) and extra hydraulics (optional) are carried out with the operating levers ergonomically positioned next to each other.



Everything under control with the MULTI-PILOT operating lever

The MULTI-PILOT (optional) combines all travel and hydraulic functions in one centrally positioned control lever. All control commands are carried out effortlessly without reaching round while the hand is resting on the ergonomically optimised control lever. The MULTI-PILOT also facilitates multi-operation of hydraulic functions at once.





More performance efficiency.

Easy and safe handling in every situation.

Simple battery maintenance

Easily fold up the bonnet and you have direct access to the battery. Due to the one-piece design of the battery cover, there is no need to remove separate side panels.

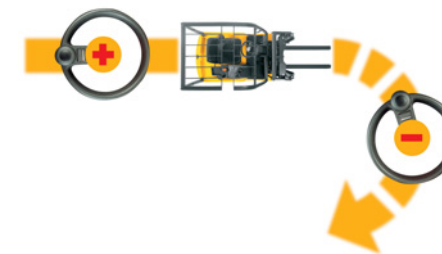
Steering

Hydraulic steering is not effected via a chain – as in comparable machines – but via wear and maintenance-free spur gears. As a completely enclosed system it ensures precise, safe power transmission.



Jungheinrich Curve Control

Curve Control (optional) automatically reduces travel speed on curves – dependent on the degree of steering lock. The electric motor brake is activated independent of the selected travel program and keeps centrifugal forces affecting driver, load and truck at a constantly low level. The advantage: An improved ride comfort and the risk of tipping over is significantly reduced.





Comfort high roof

At a height of 2090 mm (h_6) the comfort high roof provides superior headroom. The EFG 110–115 is also available with a 1970 mm (h_6) lowered height version (optional) especially for use in container applications.



Excellent manoeuvrability

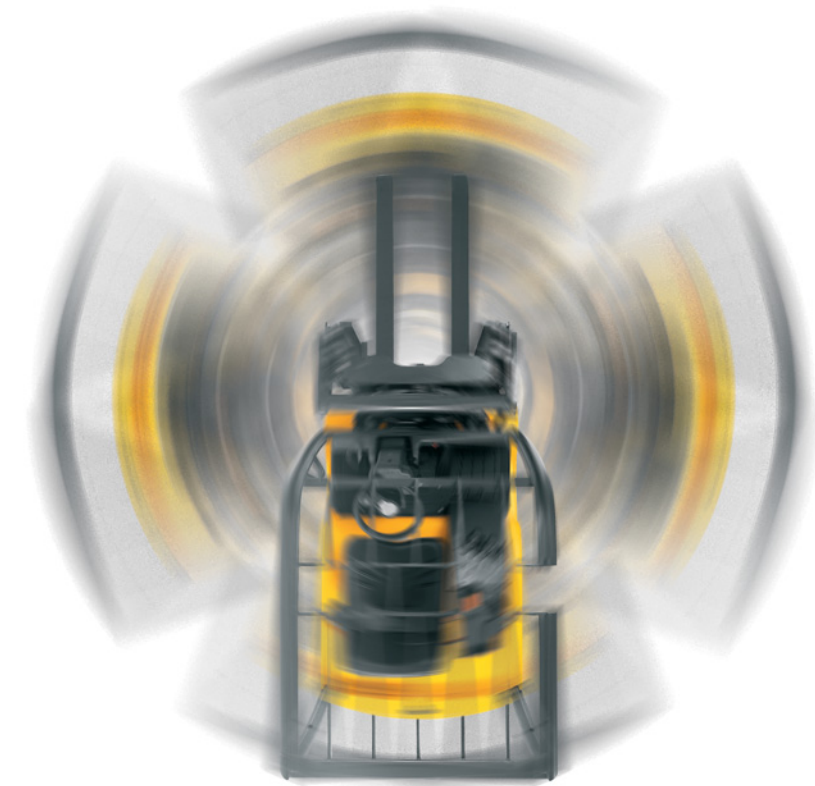
Due to the rear drive, the compact EFG 110–115 can be turned on the spot.

Extremely maintenance-friendly

Service intervals of 1000 operating hours or – for safety reasons – every 6 months. For long-term cost savings.

Safety at first sight with the Panorama mast

The lift cylinder arrangement behind slim mast profiles together with a split fork carriage provide excellent visibility towards forks or load at every lift height.





Complete solutions for complete internal logistics.

Customer Service, Racking Systems, Warehouse Planning, Rental/Financial Services.

Pallet trucks, forklift trucks, order pickers and tow tractors in more than 600 truck variants. Added to this is a multitude of additional services. This makes Jungheinrich into an internal a logistics services provider who will pave your way towards a complete logistics solution.

Direct Customer Service network

Circa 500 of our own service engineers are available in 6 countrywide locations. Every one of them is a Jungheinrich professional: mechanic, electrician, electronics and hydraulics specialist combined in one person. And he will usually be with you within four hours.



For the right truck the right racking

Jungheinrich provides you with the complete solution: comprehensive warehouse planning that sees truck and racking as a system working "hand in hand". From projecting via CAD planning to handing over the key. From shelving via system-built platforms right up to high bay racking. From consultation via assembly to Service. Everything from one supplier. Everything from Jungheinrich, your "architect" for complete internal logistics.

Financial Services and Rental Service

Jungheinrich provides you with a number of tailor-made solutions that optimally adapt to your general economic, tax and balance sheet conditions – even if these change during the course of time. So that you always react flexibly. Your specialist adviser will be pleased to calculate which solution would be the most optimal for your application.

