

Electric forklift trucks

The perfect combination
of performance and efficiency.



 **JUNGHEINRICH**

INTRO

HIGHLIGHTS

Equipped with superior lithium-ion technology or lead-acid batteries, the EFG trucks from Jungheinrich impress with a wealth of tangible benefits.

03

THE EFG SEGMENT

SERIES 1**110 | 110k | 113 | 115**

Optimum ergonomics and precise manoeuvrability thanks to compact truck dimensions.

04 – 05

SERIES 2**213 | 215 | 216 | 216k | 218 | 218k | 220**

Agility in the tightest spaces with market-leading visibility levels.

04 – 05

SERIES 3**316 | 316k | 318 | 318k | 320**

A perfect blend of agility and stability, even on very uneven floors.

06 – 07

SERIES 4**425 | 425k | 430 | 430k | S30**

Power and stamina for flexible use in indoor and outdoor areas.

08 – 09

SERIES 5**535 | 535k | 540 | 540k | 545 | 545k | 550 | S40 | S50**

The high-performance truck for the heaviest loads and attachments.

10 – 11

OPTIONS AND ADDITIONAL INFORMATION

LITHIUM-ION

The longest-lasting energy carrier by far thanks to ultra-quick charging times and zero maintenance.

12 – 13

ASSISTANCE SYSTEMS & PERFORMANCE PACKAGES

Ingenious solutions to enhance your safety, efficiency and productivity.

14 – 15

EQUIPMENT OPTIONS

Every warehouse environment, every load and every driver is different. We can tailor your truck to suit all needs.

16 – 17

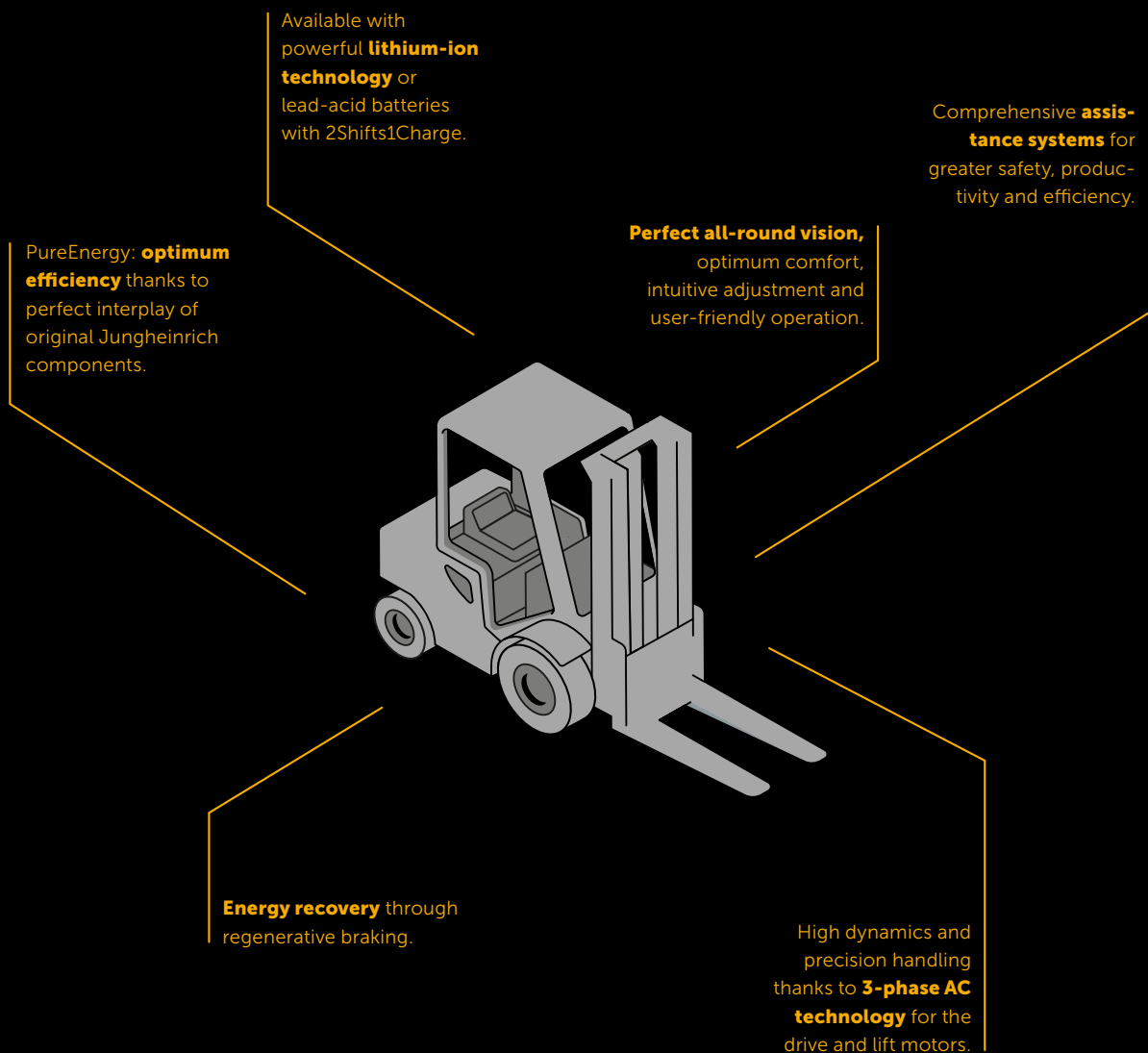
JUNGHEINRICH FACTS

Interesting facts about the leading provider of intralogistics solutions along with information regarding our products, systems and services.

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Jungheinrich EFG electric forklift trucks.

Your main benefits at a glance.



Our agile and versatile EFG electric forklift trucks are designed to offer maximum performance combined with minimal energy consumption. By opting for an EFG equipped with superior lithium-ion technology, you will leave the competition behind.

Energy recovery with regenerative braking on the **EFG 110**.



The **EFG 110** with panoramic mast for perfect visibility.



The **EFG 216k** with maximum efficiency thanks to PureEnergy technology concept.

The ergonomic workstation of the **EFG 115**.



SERIES	EFG 1 ¹	EFG 2 ¹
Model name	110 110k 113 115	213 215 216 216k 218 218k 220
Type	3-wheel	3-wheel
Lift height in mm	2,300 – 6,500	3,000 – 6,500
Capacity in kg	1,000 – 1,500	1,300 – 2,000
Travel speed in km/h	12.5	16
Overall length in mm	2,773 – 2,935	2,924 – 3,145

¹ Some models are available with a shorter wheelbase and smaller turning radius (k).

Compact and manoeuvrable three-wheel trucks. The EFG series 1 & 2.

Simple and accurate manoeuvring, even in confined spaces, in containers and on HGVs.

SERIES 1

110 | 110k | 113 | 115

Rear-wheel drive, compact design, impressive performance data and optimum ergonomics – these are the strengths of the electric three-wheel counterbalanced forklift trucks of series 1. The result: maximum agility and rapid manoeuvring in the tightest of spaces. In addition, the truck accommodates drivers of all sizes thanks to the adjustable steering column and 3-way adjustment of the comfort seat.

- ▶ Maximum manoeuvrability thanks to truck width of just 990 mm.
- ▶ Ultra-compact three-wheel truck with single-motor rear-wheel drive.

SERIES 2

213 | 215 | 216 | 216k | 218 | 218k | 220

The EFG series 2 also offers maximum agility in confined spaces and on uneven floors. The standout feature is its market-leading visibility with a significantly wider field of view enabled by the compact mast.

- ▶ The highly versatile all-rounder.
- ▶ Optimum energy and cost efficiency with maximum performance thanks to PureEnergy concept.



The **ergonomic workplace** supports efficient working and protects the operator.



Extremely manoeuvrable, even in the tightest spaces, thanks to 180° rotation on the spot.

Reliable all-rounders for any warehouse environment. The EFG series 3.

A perfect blend of agility and stability,
even on very uneven floors.

EFG SERIES 3

316 | 316k | 318 | 318k | 320

Our electric forklift trucks of series 3 combine maximum manoeuvrability and stability, even on very rough surfaces, making them the perfect solution for all transport tasks. Their special feature is the high-mounted floating axle, which distributes the load evenly across all four wheels. And with the PureEnergy technology concept, the trucks of this series also deliver optimum energy and cost efficiency. PureEnergy significantly reduces consumption while simultaneously raising throughput performance. As measurements according to the VDI cycle demonstrate: At maximum throughput, our series 3 EFG trucks consume up to 15 percent less energy than comparable trucks from the competition.

- ▶ Maximum stability and travel safety due to optimum weight distribution across all four wheels.
- ▶ Fatigue-free working thanks to the ergonomic workstation.
- ▶ Versatility and flexibility, both indoors and outdoors.



The **electric parameter steering** ensures utmost precision and minimises unwanted steering movements.



The **ergonomic workstation** offers freedom of movement and individual adjustment options – for highly efficient working.



Utmost stability, even on uneven floors, with the **EFG 320**.

The **EFG 320** offers maximum ease of use with its ergonomic workstation.

Maximum efficiency thanks to PureEnergy technology concept of the **EFG 320**.



The **EFG 320** with compact mast for perfect all-round visibility.



SERIES

Model name

EFG 3¹

316 | 316k | 318 | 318k | 320

Type

4-wheel

Lift height in mm

3,000 – 6,500

Capacity in kg

1,600 – 2,000

Travel speed in km/h

17

Overall length in mm

3,140 – 3,248

¹ Some models are available with a shorter wheelbase and smaller turning radius (k).



EFG 430s for industry-specific applications.



EFG 425k with attachments for heavy loads.



Precise handling of special loads with the **EFG 425k**.



EFG 425 with minimal vibrations thanks to decoupling of cab and chassis.

SERIES

	EFG 4^{1 2}
Model name	425 425k 430 430k S30
Type	4-wheel
Lift height in mm	2,900 – 7,500
Capacity in kg	2,500 – 3,000
Travel speed in km/h	20
Overall length in mm	3,446 – 3,617

¹ Some models are available with a shorter wheelbase and smaller turning radius (k).

² Some models are available with higher capacity and wider tread (S).

Versatile forklift trucks for demanding applications: The EFG series 4.

Power and stamina for flexible use in indoor and outdoor areas.

EFG SERIES 4

425 | 425k | 430 | 430k | S30

Our electric four-wheel counterbalanced forklift trucks of series 4 offer impressive, long-lasting performance for effective use in virtually all sectors. With three different types of tyres and high ground clearance, they also handle outdoor applications with aplomb. And thanks to our PureEnergy technology concept, the trucks boast outstanding energy and cost efficiency. As measurements according to the VDI cycle demonstrate: At maximum throughput, our series 4 EFG trucks consume up to 10 percent less energy than comparable trucks from the competition. At the same time, ergonomics are boosted by a wide range of technical innovations. This reduces the strain on operators and greatly improves their performance capability.

- ▶ Market-leading visibility enabled by a wider field of view.
- ▶ S range for particularly tough and demanding applications.



Ideal for specific industry requirements and the use of **special attachments**.



Optimum ground clearance and tyres to suit virtually all floor conditions.

For challenging applications in all sectors. The EFG series 5.

Ideal for the heaviest loads and use of complex attachments.

EFG SERIES 5

535k | 540 | 540k | 545 | 545k | 550 | S40 | S50

With their impressive capacity, our electric four-wheel counterbalanced forklift trucks of series 5 represent the ideal solution for industry-specific applications with numerous attachments. Moreover, our PureEnergy technology concept allows them to achieve best possible energy and cost efficiency combined with maximum performance. PureEnergy reduces energy consumption while greatly increasing throughput performance. As measurements according to the VDI cycle demonstrate: At maximum throughput, our series 5 EFG trucks consume up to 20 percent less energy than comparable trucks from the competition.

- ▶ Optimum energy efficiency, even in the toughest applications.
- ▶ S range for heavy loads with attachments.



Market-leading visibility thanks to compact mast with extended field of view.



Tailored to a wide range of sectors with individual **attachments**.

The **EFG S50s** with diverse attachment options for virtually all loads.



EFG S50s with dynamic handling based on the selected travel program.



The **EFG S40s** is a veritable powerhouse for the most demanding applications.



SERIES

	EFG 5^{1 2}
Model name	535k 540 540k 545 545k 550 S40 S50
Type	4-wheel
Lift height in mm	2,846 – 7,320
Capacity in kg	3,500 – 5,000
Travel speed in km/h	17
Overall length in mm	3,805 – 4,102

¹ Some models are available with a shorter wheelbase and smaller turning radius (k).

² Some models are available with higher capacity and wider tread (S).



Much greater stamina in multi-shift operation.



3 times longer service life than lead-acid batteries.

0,0
Zero maintenance.



5-year warranty.



Up to 20% less energy consumption than lead-acid batteries.



50% charge in just 30 minutes, fully charged in 80 minutes.

Lithium-ion – your competitive edge. 100 % satisfaction. Guaranteed.

ADVANTAGE: LITHIUM-ION TECHNOLOGY

With Jungheinrich lithium-ion batteries, you can enjoy the benefits of what is by far the longest-lasting energy source. Jungheinrich develops and produces its batteries, chargers and all important truck components in-house. This ensures perfect interplay between all parts of the system, which allows optimum performance at all times. Ultra-fast charging times and zero maintenance requirements enable virtually uninterrupted deployment of lithium-ion trucks. Power is always available, with no signs of fatigue. This outstanding endurance is backed by a 5-year warranty with unlimited operating hours. We are certain that you will be impressed. That is why we guarantee that you can quickly and easily switch back to the original technology within 6 months of delivery – without stating reasons.

ADVANTAGE: PUREENERGY

Thanks to our PureEnergy technology concept, the EFG electric forklift trucks combine maximum performance with minimal energy consumption. PureEnergy reduces consumption while simultaneously boosting throughput performance by a significant margin. This is enabled by sophisticated 3-phase AC technology in conjunction with the compact controller and compact hydraulic unit.



LI-ION
technology

5 YEARS
GUARANTEE
ON LI-ION BATTERIES

Perfection in every detail. Our assistance systems and performance packages.

Ingenious solutions to enhance your safety, efficiency and productivity.

ASSISTANCE SYSTEMS

addedVIEW

Four digital cameras provide the driver with a perfect all-round view. As well as benefiting from front and reversing cameras, the driver can also call upon an external bird's eye view of his truck. All camera feeds can be viewed directly on the cockpit display – either individually or using a split-screen function.

curveCONTROL

When cornering, the truck speed is actively reduced based on the current load and steering angle. This ensures maximum travel stability and safety for the transported load – while also boosting throughput performance.

driveCONTROL

The truck speed is adjusted automatically based on the current lift height. This ensures that the raised load is always transported safely.

liftCONTROL

Based on the current load, the tilt speed of the mast is controlled automatically as of a lift height of approx. 1500 mm. This ensures that the transported goods are raised safely and the risk of accidents is drastically reduced.

tiltCONTROL

When approximately one third of the rated capacity is reached, the mast angle is adjusted automatically. This actively prevents the truck from tipping, allowing the operator to focus on the task at hand.

zoneCONTROL

This electronic system monitors and controls the motion sequences in predefined warehouse zones. It can perform automatic actions, such as opening a gate or activating a warning light. Where necessary, it can also intervene in the truck functions, e.g. in the case of lift height restrictions, when unloading is prohibited or by actively braking in danger zones.

PERFORMANCE PACKAGES

EFFICIENCY

The Efficiency package ensures highly energy-efficient lifting and travel, thus enabling a massive reduction in consumption. It is ideal for applications where the emphasis is on quick and efficient lifting and travel, rather than on the maximum achievable throughput speed.

drive&liftPLUS

By offering greater travel/lift speeds, the drive&liftPLUS package exploits the full technical capability of the forklift truck. This ensures maximum performance and highest throughput speeds.



The lift speed control system **liftCONTROL** ensures safe lifting of loads.

driveCONTROL allows for even more sensitive manoeuvring during the work cycle.



tiltCONTROL automatically adjusts the mast's tilt angle according to the load.





02

01

07

03

04

06

05

Individually adapted. Our equipment options.

Every warehouse environment, every load and every driver is different. We can tailor your truck to suit all your needs.

01

Driver dialogue system – ergonomically integrated in the armrest. For quick and simple communication during work sequences.

02

Adaptable control lever – soloPILOT (standard), multiPILOT or duoPILOT (as shown).

03

Full-colour TFT display – high-resolution and high-contrast, with intuitive user guidance – for relaxed, productive working.

04

Space-saving steering column – infinitely adjustable in two directions. Ergonomic adjustment to suit all drivers.

05

Generous footwell with single or double pedal operation (from series 3)

06

Low-vibration seat for maximum driver comfort and relaxed, fatigue-free working.

07

Adjustable armrest with large storage compartment – perfect ergonomics for drivers of all sizes.



soloPILOT: All hydraulic functions, travel direction selection and horn in a single lever. Control of all functions with millimetre precision.

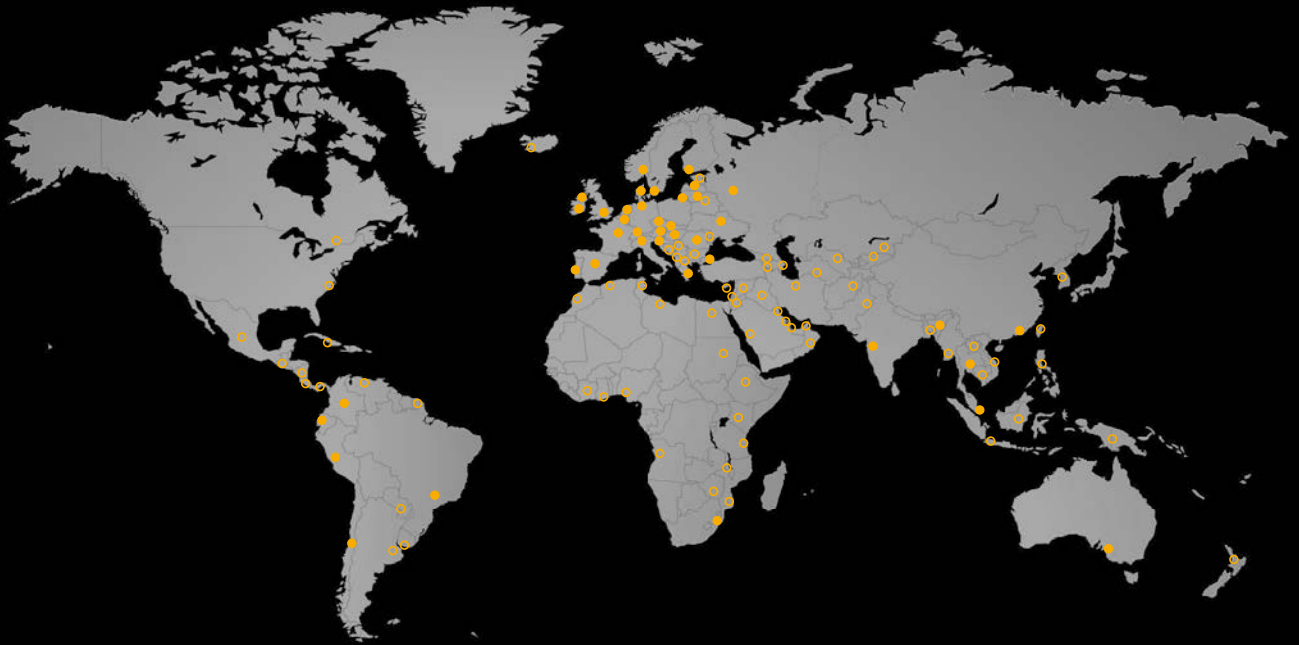


multiPILOT: Straightforward input of all control commands without moving your hand – with ergonomically optimised grip.



duoPILOT: Precision control of the truck via two independent levers. Individually configurable on request.

A leader in intralogistics. There for you across the globe.



● Our own direct sales companies in 40 countries.

○ Partner companies in over 80 more countries.

Over 18,000 employees.

More than 5,400 after-sales service engineers worldwide.

Founded in 1953, Jungheinrich is one of the world's leading providers of intralogistics solutions. With a comprehensive portfolio of industrial trucks, logistics systems and services, we offer tailor-made solutions that allow you to devote your full attention to your core business. With our unique direct sales and service network, you can call upon a reliable partner who is at your side at all times, wherever you may be in the world.



LOGISTICS SYSTEMS

Based on our extensive process knowledge and experience in a wide range of industries, we can also provide you with tailor-made logistics systems, ranging from manual to semi-automatic and fully automated solutions. We will thus work with you to raise your efficiency and productivity to a whole new level.



NEW TRUCKS

Lifting, stacking, transporting, order picking - electrically, by combustion engine or by hand? Our product portfolio contains the perfect trucks for your needs.



RENTAL

Forklift truck rental is not just an ideal solution for addressing short-term or seasonal requirements. Jungheinrich offers "power on demand" for all companies, regardless of their size or industry. We provide rental solutions for every requirement, with more than 60,000 trucks available worldwide for immediate use.



USED TRUCKS

JUNGSTARS are used trucks from Jungheinrich, which are among the best on the market. With high-end refurbishment according to our 5-star principle, every truck is returned to an outstanding technical and visual condition to satisfy the highest safety and sustainability standards.



DIGITAL SOLUTIONS

With intelligent software and sophisticated hardware components, we ensure complete digital networking within your warehouse. All processes can be monitored centrally and controlled with utmost efficiency. Systems from different manufacturers can also be integrated with ease.



CONSULTING

Products and services must meet your exact requirements. That is why our consulting combines a high level of technical know-how with process knowledge and in-depth industry expertise. We can thus work together to identify the perfect complete solution.



FINANCING

Jungheinrich Financial Services is your reliable partner throughout the entire life cycle of your Jungheinrich product. We offer you individual solutions for trucks, racking, warehousing and system solutions, taking your budget and the special requirements of your business into account.



AFTER SALES

The trouble-free operation of your intralogistics solution is our top priority. That is why we offer reliable, global support for your trucks and systems with more than 5,400 qualified service engineers. This allows us to be on-site within a very short time frame to restore the availability of your trucks and systems.

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

 Jungheinrich trucks
conform to the European
Safety Requirements.

Jungheinrich Aktiengesellschaft

Friedrich-Ebert-Damm 129
22047 Hamburg
Germany
Telephone +49 40 6948-0
Telefax +49 40 6948-1777

info@jungheinrich.com
www.jungheinrich.com

 **JUNGHEINRICH**