



Are you looking for high-performance electric fork lift trucks with the lowest possible energy consumption?

We offer you just the right electric four-wheel fork lift trucks with capacities of 2,500 to 5,000 kg.



IFOY AWARD

counter balanced truck
of the year 2014

JUNGHEINRICH
Machines. Ideas. Solutions.

Are you using your truck for long periods?

Then why not try our Pure Energy technology concept?

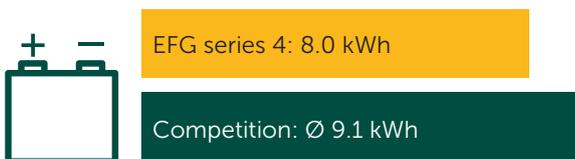
Our Pure Energy technology concept is a package for optimizing energy efficiency. For maximum throughput efficiency with minimum consumption. Whether you always drive and lift flat out or you operate economically. And all of that automatically, without even pressing buttons.

The elements of this energy concept are:

- Advanced 3-phase alternating current technology: With optimum coordination between motors and controls
- Compact controls and very short electric cables due to consumer-oriented configuration
- Compact hydraulics: Reduction in length of hoses line due to direct connection to the hydraulic system

Maximum energy efficiency to save you money

Energy consumption



Throughput



Consumption and transported pallets per hour according to VDI, compared to competition (average value). EFG series 4 with Drive&Lift Plus options package.

Two performance packages are available to customise the truck to best suit your requirements:

Efficiency options package

The Efficiency package is perfect for applications where the emphasis is on quick lifting and moving, but just not at the maximum achievable throughput. Choosing the Efficiency package is the most cost-conscious option there is.

Drive&Lift Plus options package

The Drive&Lift Plus package utilises all the technical capabilities of the truck to their full extent. For example, in conjunction with a longer frame which offers more space for higher capacity batteries. Drive&Lift Plus gets everything out of your EFG so that you can get everything out of your warehouse as quickly as possible.

A yellow Jungheinrich forklift is shown in a warehouse setting, carrying a pallet of green pallets. The operator is wearing a high-visibility yellow jacket. The forklift has "JUNGHEINRICH" written on the mast and "JUNGHEINRICH EFG 545K" on the side. The background shows rows of pallets in a warehouse aisle.

Save up to

€ 500

a year in energy costs alone.

In addition to the investment costs for a replacement battery that would otherwise be needed, the new series 4 EFG will enable you to save up to € 500 per year in energy costs alone in comparison with an average competitor truck.*

*Based of a price of 0.10 € per kWh for electrical power with an average two-shift usage at 2000 operating hours per year.



EFG S50s and S40s with optional twin tyres

Are your application requirements in a class of their own? So is our S range.

We are placing renewed emphasis on the load centre.

Our S range raises the bar even higher: With a 600 mm load centre at capacities ranging up to 5,000 kg, it offers you the range of features you need for the toughest indoor and outdoor applications or fitting of costly attachments.



EFG S30s (3,000 kg capacity)



EFG S40s (4,000 kg capacity)



EFG S50s (5,000 kg capacity)

**Every operator sits, drives, steers,
controls and works differently.
That's why we've included
a number of great ideas.**

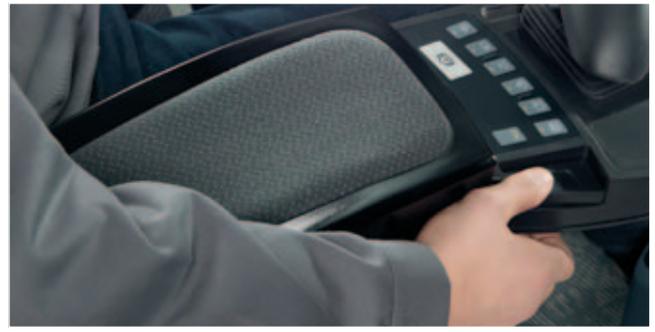


Maximum legroom and outstanding ergonomics with parameter steering (see also page 15).



Space-saving steering column

The narrow steering column guarantees lots of legroom with effortless entrance and exit. The intuitive steplessly adjustable steering column adjusts to every operator's requirement.



Armrest features steplessly adjustable tilt

The stepless single-point adjustment of the armrest in two axial directions ensures maximum comfort. The arm is relaxed at all times as it is supported by the armrest to carry out all commands easily and intuitively. A fabric cover is optionally available.



Many storage options

The truck contour is closed on the right side of the operator. This guarantees maximum rigidity for the overall design. It also forms the basis for a number of storage options: from two sizes of cup holder via a clipboard to slots and recesses for papers, a smartphone or more. There is room for everything operators need to work efficiently throughout their shifts.



Ample storage tray in the armrest

The storage tray in the armrest can optionally be fitted with a USB port. This makes it possible to charge an MP3 player or mobile phone easily and reliably.



Convenient entry step

The large entry step in a contrasting colour is clearly visible from the operator position.

You can choose from three operating systems: DUO-PILOT, MULTI-PILOT or SOLO-PILOT. They all have one thing in common: the adjustable lever/axis assignment. They determine which function is assigned to which lever.



DUO-PILOT

DUO-PILOT offers precise and sensitive control of all truck functions with two control levers. The separate travel direction switch features an ergonomic gripping design for effortless activation.



MULTI-PILOT

MULTI-PILOT is based on the principle of a joystick. The functions are directly controlled by the movement of the MULTI-PILOT or via pushbuttons.

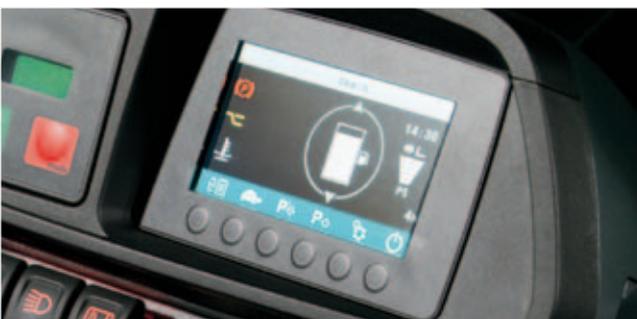


Personally customisable operating options:

- Double pedal or car-type pedals
- Three control lever variants
- Adjustable lever/axis assignment
- Five different operating/travel programs
- Individually assignable function keys

SOLO-PILOT

With SOLO-PILOT, the travel/lifting functions are controlled solely by the fingertips. No hand movements are required. The levers have the same functions as conventional single levers.



Full colour display

The high-resolution, high-contrast TFT display provides information about all selected settings at any time.



Operator dialogue system

The operator dialogue system provides detailed information about all important states and provides individually assignable function keys for activating and deactivating the assistance systems.





JUNGHEINRICH
EFG 425

JUNGHEINRICH

Operator-oriented. Performance-oriented:

A series of technical and ergonomic innovations relieve the burden on the operator while supporting performance. Relaxed, stress-free work environment for higher throughput efficiency.

Integrated converter makes it easy to retrofit additional functions

Plug & play. No time-consuming installation of new converters and cables. Peripheral functions can be activated quickly and easily with the series 4 and 5 EFG. From working lights to warning buzzers. From strobe lights to overriding the lift cut-out. A wide range of electrical options can be installed in no time at all. Our service engineer will be happy to provide you with information about all the configured accessory packs.

Excellent visibility

- Optimum visibility in all directions
- Window elements without frame (full cab)
- All masts feature optimised visibility

Compact mast with best visibility

Our EFGs with capacities ranging up to 3.5 t are equipped with the new compact mast. The compact mast significantly extends the operator's field of vision, offering the best visibility available on the market. Important features contributing to the enhanced visibility include compact profile nesting and an optimised chain and hose guide as well as two viewing windows in the cross member.

Jungheinrich Curve Control for safe cornering

Jungheinrich Curve Control automatically reduces the travel speed when cornering, depending on the degree of the steer angle. Electric braking engages and keeps centrifugal forces at a constant low level. The advantage: The risk of dangerous rocking or even tipping over is effectively reduced.

Maximum driving safety thanks to low centre of gravity and high mounted fully floating axle

The trucks have excellent stability and driving safety values. And this is achieved without a complex or maintenance-intensive system. It is all thanks to the application of basic physics in the design phase.

Individually selectable operating/travel programs for efficient operation

Five different operating/travel programs give the operator the ideal versatility to cope with any application. This enables the truck to use as little energy as possible and only as much as is actually necessary.

Automatic parking brake

The automatic parking brake (optional) reliably prevents accidental roll-back.

Two wear-free braking systems for every situation

Situation no. 1: The operator drives as normal to a particular destination. Shortly before arrival, it is of course necessary to brake. Here it is sufficient to take the foot off the accelerator. The electric braking slows the truck significantly until it comes to a halt.

Situation no. 2: Sudden risk of collision, the operator must brake heavily. In this instance, the operator presses the brake pedal and activates the hydraulic multi-disc brake. This brake is completely wear-free and offers outstanding performance thanks to its humidity-resistant encapsulation.



The compact mast offers optimum visibility.

Fast. Simple. Safe. Our solutions for your battery exchange.

SnapFit for battery exchange without a crane

- SnapFit is the reliable, economical and user-friendly battery exchange system.
- SnapFit locks the battery and battery trolley to the pedestrian pallet truck and guides both safely during insertion/removal.
- SnapFit is easy to use on any of our pedestrian pallet trucks. The universal adapter for 48 and 80-volt batteries is simple to attach and remove – without using a tools.



**Battery exchange with crane
with automatic battery ejection (optional)**

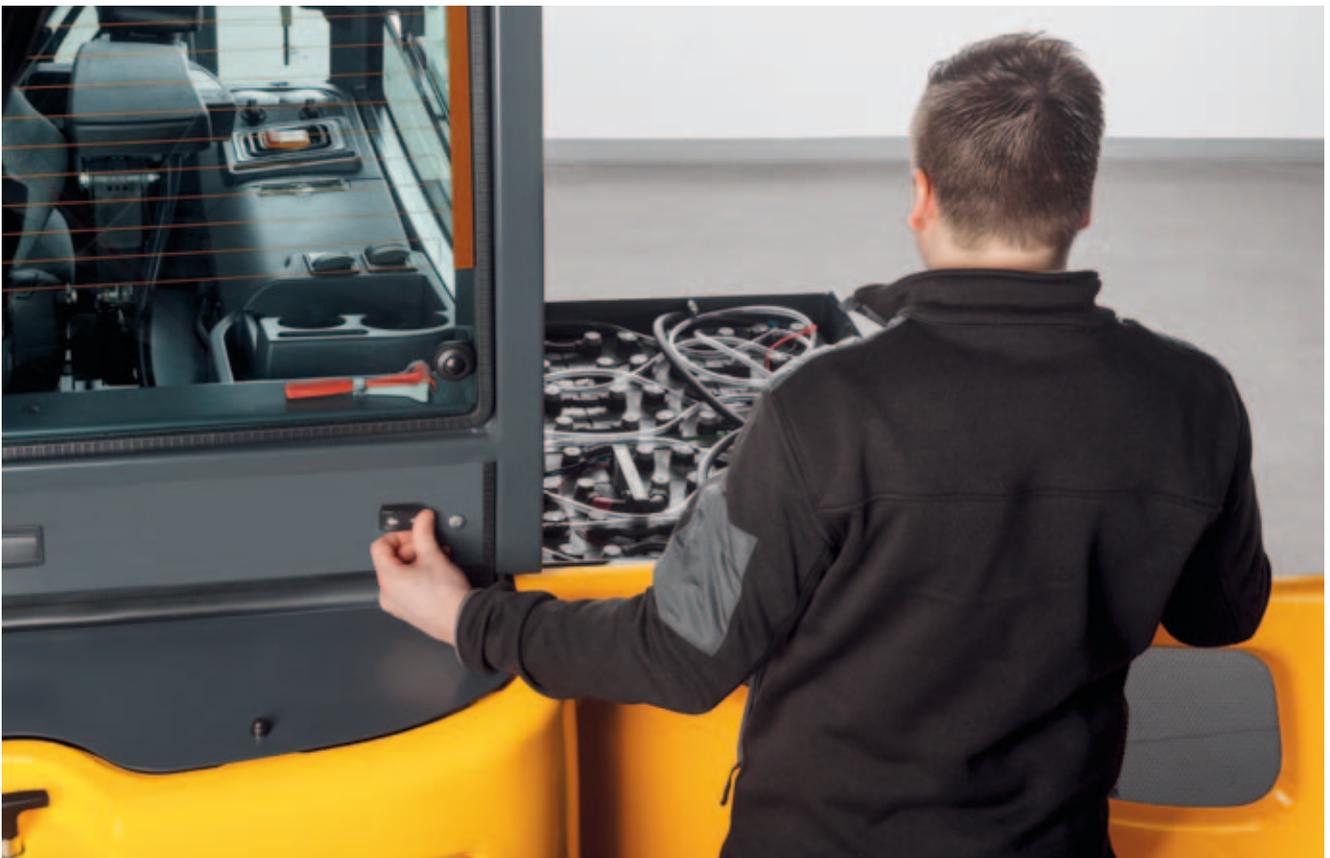
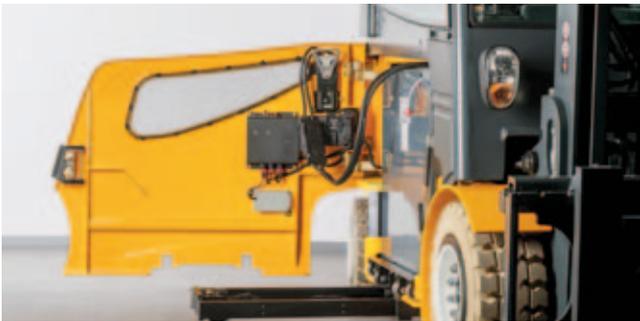
A touch of the button is sufficient: The undercarriage moves into position and the battery is completely ejected – ready to be lifted by crane. The 2-stage mechanism protects the floor. The operator is protected at all times by the battery door.

More energy through synergy

In keeping with this motto, we can offer you trucks, batteries and chargers from a single source. A system adapted 100 % to your operating conditions. The advantage: maximum truck availability and an economical energy supply designed for specific needs. Your batteries, your budget and the environment will thank you.

**High-frequency charging ensures
maximum performance**

Our high-frequency chargers save up to 30 % on energy and reduce your charging times significantly. Pre-configured charging programs, simple commissioning with Plug & Play technology and, not least, the low space requirement make charging quick, straightforward and cost-effective.





Do you have specific requests and requirements?

You can be sure we will have the right solution for you:

More room for performance:

Parameter steering (optional)

Our parameter steering makes the steering support dependent on the travel program. At low speeds, the support from the electrical steering is high – the operator needs to make relatively few movements of the steering wheel. At higher speeds, the steering support diminishes.

Advantages:

- Minimises unwanted steering movements
- More legroom
- Further improved energy efficiency
- Further optimised throughput

Cabs for any kind of weather (optional)

With a wide range of equipment options (with heater or air conditioning system, etc.) our cabs offer a comfortable solution for every season. And the modular design ensures individual adjustments for your applications.

Individually tailored attachments

We offer attachments for your sector-specific applications. All attachments are mounted and meticulously tested in our factory to ensure they provide maximum safety and reliability.

Optimum tyres and high ground clearance

Our EFGs can manage any floor conditions, partly because of the high ground clearance and also thanks to optimum traction with different tyres. We offer twin, pneumatic and super elastic tyres depending on the application. This significantly reduces the risk of sinking into soft ground. It also means more comfort for the operator because hard jolts are softened.

Safety at all blind spots with Floor-Spot (optional)

Floor-Spot projects a red dot on the floor about 5 m from the truck. Especially at blind intersections or at the end of rack aisles, this alerts an approaching truck in time to respond.

Automatic parking brake for safety on inclines (optional)

If the operator takes his foot off the accelerator on a ramp, the truck stops without him having to apply the brake. When the truck starts up, the brake is automatically released and the truck moves off carefully without rolling backwards.

Safe and reliable load handling with Lift Control (optional)

Based on Drive Control, Lift Control reduces the mast tilt speed from an individually specified lift height. This significantly contributes to the safer handling of loads at greater lift heights. The operator is able to relax and track this movement on the tilt angle display.

Protection against unauthorised driving with Access Control (optional)

Access Control only releases the truck for operation when a valid access code is recognised and the 'seat occupied' and belt lock detection systems have been activated in turn.

Speed restriction with Drive Control (optional)

Drive Control automatically activated limits acceleration and maximum travel speed when cornering and from a defined lift height. This increases safety when manoeuvring with a raised pallet, while still ensuring even more sensitive manoeuvring during the work cycle.

Radio data terminal with barcode scanner (optional)

Data radio connection allows for wireless data transfer. Radio data terminal with intuitive operation for work in real time without paperwork. The barcode scanners ensure fast and reliable identification of goods. This prevents errors in the work process.

Pure Energy: EFG series 4 and 5.





Yes or no?

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

BestInvest

Our electric four 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.

100 % customised vehicles

Special applications require special trucks. This is especially true for factors to which the standard trucks cannot easily adapt, such as company-specific transport operations, unusual goods or complicated layouts. We offer customised adaptations for specific applications. Quality and cost-effectiveness from series production are combined with your personal requirements. The consistent modular design of our entire product line makes this possible.

Explosion protection for hazardous areas

Many industrial sectors are subject to a high level of explosive hazard due to flammable gases, fumes, powder or dust. To meet these special requirements and to guarantee safe operation, we can supply explosion-proof electric fork lift trucks in accordance with Directive 94/9/EC (also referred to as ATEX 95).

The right racking for the right truck

We can provide you with the complete solution for this: integrated warehouse planning, with the racking and the trucks working 'hand in hand' as part 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. A one-stop shop.



Einführung

Kernkompetenzen

Kommunikation
(210 Punkte)
Kollaboration
Kreativität
Kritisches Denken
Kultur

Lernaktivitäten

Kommunikation

+A

+B

+C

Kommunikation

Kollaboration

Kreativität

Kritisches Denken

Kultur

Service with the manufacturer's competence

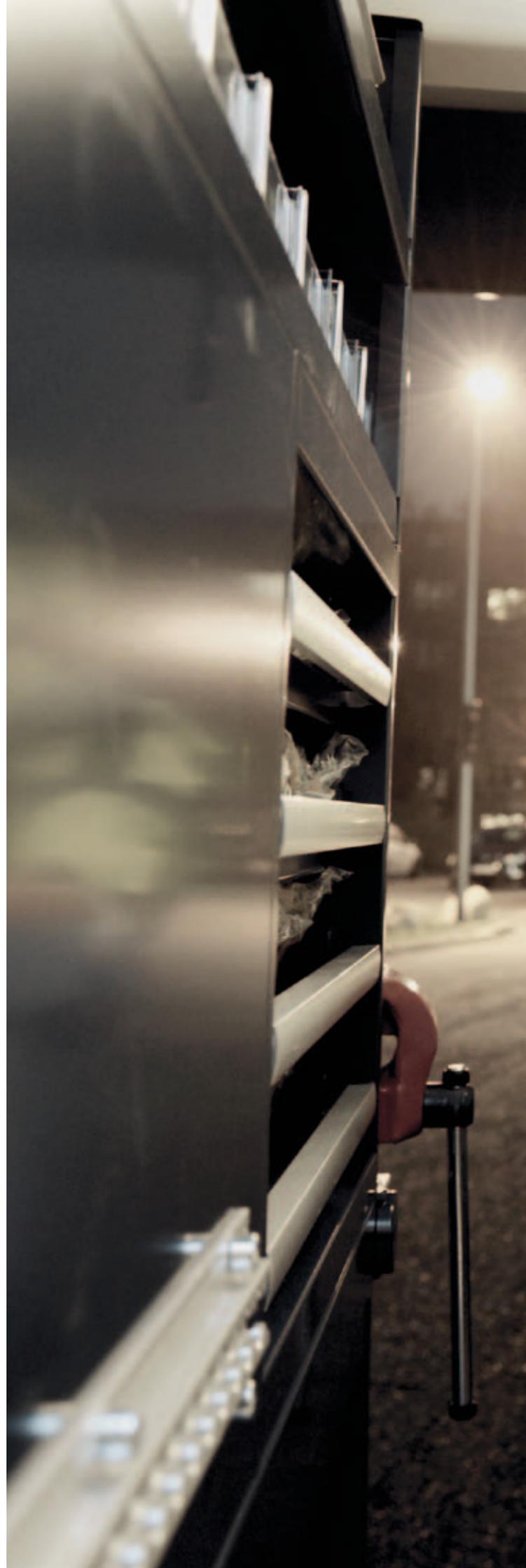
Benefit from our service. Benefit from the manufacturer's expertise. With our full service offer, or individual maintenance intervals, or much, much more, you will be convinced by the diversity of our service, which is flexibly adapted to your specific application. In this way our service provides you with long-term investment and planning security. With our full network and superbly trained technicians, our direct sales network can ensure rapid response times, minimum downtimes and low operating costs.

Advantages

- Competent and comprehensive consultancy.
- Short communication channels and rapid response times.
- Short downtimes to save you money.
- First-class training of the service technicians.
- Efficient spare part logistics with 98.5% spare parts availability.
- Preserve the value of your trucks with original spare parts.
- Increased operational safety and reliability.

The whole is greater than the sum of its parts

Our service department has exclusive access worldwide to original spare parts. Using only original spare parts is the only way to maintain optimum interaction between all components, ensuring maximum reliability and preserving value. Only our original spare parts meet the high performance requirements of the truck and material and secure your complete warranty claim.





JUNGHEINRICH

With night express delivery, all spare parts can be delivered directly in our service engineers' vans so they reach you by next morning.

Double digit decrease in CO₂ emissions over ten years

We have drastically reduced CO₂ emissions for our entire truck range over the last ten years – 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 standards for CO₂ emissions.

Significantly reduced CO₂ emissions also mean significantly lower energy costs

Our entire product cycle now features technological 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].





JUNGHEINRICH

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

 Jungheinrich trucks conform to the European Safety Requirements.

Jungheinrich
Vertrieb Deutschland AG & Co. KG

Am Stadtrand 35
22047 Hamburg
Germany
Telephone +49 40 6948-0
Telefax +49 40 6948-1777

info@jungheinrich.com
www.jungheinrich.com

**JUNGHEINRICH**
Machines. Ideas. Solutions.