



Horizontal order picking. With extra options.

The ECE Series 2 and 3.

 **JUNGHEINRICH**

Performance and innovation.

Extra ideas.

The interface between man and machine must function effectively, especially when order picking. This is why we rely on our horizontal order pickers for driving safety and for making daily work efficient. Designed for the toughest jobs, our ECE Series 2 and 3 are also ideal for multiple shifts thanks to their lithium-ion technology. And with the JetPilot multifunctional steering wheel, order picking becomes child's play. Also a wide range of options enables the tailoring of your truck to suit every application.





The standard.

With that certain extra.

With high performance values, robust construction and increased driver comfort, our ECE Series 2 and 3 provide increased performance and greater efficiency even in the standard version. And with our additional equipment, you can pick even faster and more safely. Even at the second racking level.

The basis for maximum picking performance

Even the standard version of our horizontal order pickers offers plenty of advantages. The powerful and efficient 2.8-kW 3-phase AC drive motor achieves the best performance values on the market, convincing customers with rapid and smooth acceleration with class leading top speeds. For even more picks per hour in every load situation.

The advantages of a perfect workstation

Despite its compact dimensions, our ECE can boast a spacious operator position and numerous practical storage areas on the front cover and backrest. The low step height and the increased grip of the stand-on platform provide the best conditions for safe order picking. In addition to the height-adjustable JetPilot multifunction steering wheel for intuitive steering, the display and the controls are centrally located and easily accessible to the operator.

Rugged construction for the toughest applications

Our ECE order pickers combine powerful performance and high-quality design with robust processing: With the shockproof front cover and capacities up to 2,500 kg, they are ready for any application no matter how demanding.



ECE Series 2 in the standard version



JetPilot: The height-adjustable multifunctional steering wheel

Everything under control with the JetPilot.

Climb aboard and drive away immediately

More driving sensation. More driving safety. More efficiency. More fun. The JetPilot – the best selling operating controls in its class – combines all the advantages of the tiller and steering wheel system in a height-adjustable multifunctional steering wheel. For automotive-style steering without a learning curve. It ensures that the operator has everything to hand and under control at all times.

Safety and comfort for every application

Irrespective of whether you can use both hands for steering or only have one hand free – the JetPilot offers first-class comfortable steering and ensures a secure grip in every situation. Especially when cornering, the operator always remains safely on track thanks to the automatic straight-ahead positioning.

Suitable for every application. For extra performance.

In order to optimally adjust your trucks to your individual requirements, you can choose between our three performance packages – Standard, Drive Plus and Drive & Eco Plus – with different ranges of service on offer. Combine cost-effectiveness with efficiency to make the most of your dream truck.

Standard

Ideal for high pick rates with low energy consumption.

Your requirement:

- Cost-effective order picking.
- Increased energy efficiency and picking performance.

Standard advantages:

- 2.8 kW 3-phase AC motor with the best performance values in the market.
- Good acceleration and speed values.

Drive Plus

Ideal for improved performance and a faster picking process.

Your requirement:

- Optimum performance and safety in every load situation and when cornering.
- Increased performance through maximum top speed on longer routes.

Drive Plus advantages:

- Highly efficient 3.2-kW 3-phase AC motor with increased acceleration and speed values.
- Intelligent, application-dependent adjustable Curve Control for safe cornering by means of adapted driving speeds.
- Drive dynamics in accordance with the load.
- Various travel programs in combination with the 2-inch display (optional).

Drive & Eco Plus

Ideal for energy-saving high-performance order picking.

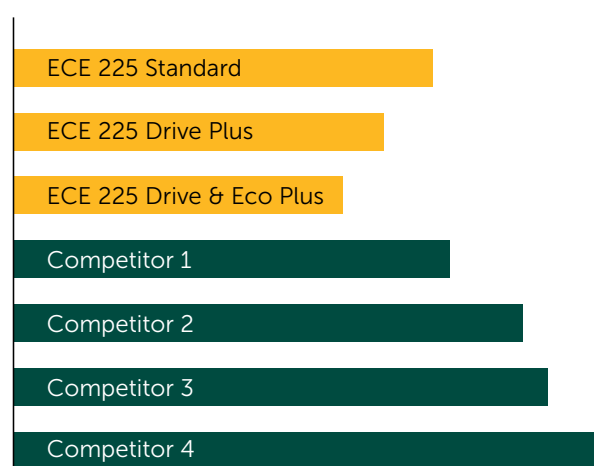
Your requirement:

- Maximum picking performance even over long distances.
- Optimised performance values while simultaneously increasing energy efficiency.

Drive & Eco Plus advantages:

- Highly efficient 3.2-kW 3-phase AC motor in conjunction with a newly developed wheel set with improved roll resistance and adapted driving software.
- Maximum optimisation of consumption in the hardest applications and even for multiple shifts without sacrificing performance.

Energy consumption according to VDI cycle





JUNGHEINRICH

ECE 225

Your own creation.

An order picker with extra class.

Choose the appropriate additional equipment for your order pickers.

- 2** **Options bracket**
for more individualisation
- 1** **Numerous storage compartments**
for organised work
- 10** **DayLED daytime running lights**
for better visibility
- 11** **Bumper variants**
for more protection
- 12** **High-performance battery**
for long operations



3

2-inch display
for more information

6

Extended backrest
for improved protection of the operator

5

Backrest variants
for more comfort

7

Touch mode in backrest
for faster order picking

8

Effortless access to the second racking level
for improved availability

9

Load section variants
for ergonomic working

4

Variable operator position
for more comfort



Even stronger performance. With extra strong options.

Are you already familiar with all the options available for fully utilising the performance potential of your order picker and further maximising the pick rates? We make it easy for you. With a host of useful options and numerous additional features that ensure 100% adaptation of your order picker to your requirements.



Storage box on the battery lid



Order picking storage tray on the options bracket

1 Numerous storage options for organised working

With our sophisticated and easily accessible storage options, you can adjust the operator's workstation to suit their individual application needs, enabling them to maintain an overview at all times. The storage box on the battery lid and/or on the options bracket available on request allows for the quick storage of pens or documents. The additional storage option in the backrest, used for example to hold a scanner or knife, makes work easier when under time pressure.

Shrink wrap holder for quick access

Shrink wrap and other important utensils for rapid picking find a home in the shrink wrap holder. Depending on the

application, the user can optimise the reach by fixing the holder in the front storage tray, on the backrest or on the practical options bracket.

2 Options bracket for more individualisation

The stable and robust multifunctional bracket and the 24 V electrical interface allow for the use of a radio data terminal for paperless picking, for example. But other devices may also be mounted on this bracket: Scanner, printer, clipboard as well as shrink wrap holder or Floor-Spot. There are two versions to choose – complete or half (right).



2-inch colour display and EasyAccess transponder

3 2-inch display for more information

Using the new 2-inch colour display with information screen, the operator selects their individual travel program for slow, medium or high speed. The display provides information about the current travel program, load, speed and warnings. Information about the battery charge, hour meter and event codes can also be seen at a glance.

EasyAccess for easy access control

Jungheinrich EasyAccess protects the truck against unauthorised use. Authorisation is assigned directly on the truck display. You can choose between the softkey, PIN code and transponder options.



Intuitive radio data terminal

Radio data for paperless warehouse management

Mounted at an ergonomic viewing height on the options bracket, Jungheinrich's intelligent and intuitive radio data terminal allows for paperless and efficient working in real time. Thanks to the wireless data exchange with your warehouse management system, you can guarantee the currency of your inventory at any time and during any picking process.



4 Operator position variants for more comfort

Extended operator position

Extended by 50 mm, the stand-on platform provides additional room for the operator. It offers more workspace, particularly during pick-intensive operations and when using pick-by-voice belts.

Cushioned, adjustable stand-on platform

The innovative stand-on platform significantly reduces the transmission of vibrations caused by uneven floors to the operator. The degree of cushioning can be adjusted by a weight setting. This reduction in unwanted vibrations protects the operator, allowing for longer, more effective operating times.

Knee padding and footrest for reduced physical strain

To make the picking process less tiring and more productive, it is also important to further reduce strain on the legs and knees. We have done this by including a footrest and knee padding with an integrated DIN A4 storage tray on the battery lid. We recommend this option in combination with the height-adjustable seat.

Extended operator position



JetPilot touch mode



Backrest touch mode



5 Backrest variants for more comfort

Comfort backrest

The upholstered comfort backrest has a pleasantly soft and cushioned surface for leaning on during longer journeys.

Height-adjustable comfort backrest with armrest

The additional height-adjustable, ergonomic armrest integrated into the backrest provides increased safety, particularly when travelling in reverse, thanks to its fixed hold points. Its unique ability to adapt to different body sizes makes the armrest a must-have for high picking volumes.

Height-adjustable seat with comfort backrest and armrest

The height-adjustable seat support with armrest relieves strain on the legs and knees on longer journeys. If space is needed for free access or more room to manoeuvre, the seat can be easily folded up. We recommend this option in combination with the knee padding and footrest.

6 Extended backrest for improved protection of the operator

The extended backrest with safety guard is available up to a height of 2,000 mm, offering optimum protection for the operator, particularly with high loads. It also serves as additional support when entering and exiting the truck. This increases safety.

7 Touch mode in the backrest for fast order picking

Our ECE can be "remotely controlled" via the button attached on both sides of the backrest. This enables the operator to collect goods rapidly from closely positioned picking locations and saves them having to move back to the operator platform.

Pedestrian mode via JetPilot drive switch

The JetPilot is also easily accessible by the operator when not standing on the operator platform, enabling the truck to be driven without climbing aboard. This saves time and energy, particularly over short distances.

Accelerated lifting function with JetPilot

Pressing the lift button twice automatically raises the load section to a predefined height. This reduces unnecessary waiting during the lifting process.



Lifting stand-on platform with control unit (HP-LJ)

8

Effortless access to the second level of racking for improved availability

Ergonomic footstep

Our footstep paves the way for safe access within the contours of the truck and comfortable order picking at the second racking level. If required, a guard rail provides additional protection when working on the walk-on battery lid.



Ergonomic footstep

Lifting stand-on platform (HP)

For frequent picking at the second racking level, our hydraulic lifting stand-on platform offers the necessary lift for rapid and ergonomic work. The platform can be easily raised via a foot switch, freeing up the hands of your operator at all times.



Lifting stand-on platform (HP)

Lifting stand-on platform with control unit (HP-LJ)

With the majority of order picking operations taking place at the second racking level, our ECE offers a further modification which enables the JetPilot control to be raised in conjunction with the platform. This allows the operator to drive or control the truck with the platform in the raised position without first having to lower it. This allows the operator to fully utilise the efficient "diagonal travel" (simultaneous driving/lifting/lowering). This saves both time and costs.





Ergonomic lift for one pallet (ECE 310)

9 Load section versions for ergonomic working
 Three versions are available for raising or lowering the picking goods to an ergonomic working height:

Ergonomic lift for one pallet (ECE 310)

- Easily lifting load section for raising loads of up to 1,000 kg up to a height of approximately 800 mm.

Ergonomic lift for two pallets (ECE 320)

- Lift with extended load forks for the collection of several pallets located one behind the other.
- For the lifting of loads up to 1,000 kg.

Scissor lift for two pallets (ECE 320)

- Suitable for up to two Euro pallets per fork.
- For the raising of loads of up to 2,000 kg up to a height of approximately 800 mm.

Automatic pallet lowering

By means of an optical sensor attached to the load section, the pallets are automatically lowered to a convenient working height. This noticeably reduces the stress on the operator.

10 DayLED daytime running lights for better visibility

Particularly in poorly lit warehouses, it is important that all trucks are visible from a safe distance. This is why our trucks have permanently illuminated daytime running lights to prevent accidents during warehouse operations.

Floor-Spot for safe manoeuvring

Additional safety at blind spots or narrow areas of the warehouse is provided by the Floor-Spot, an easily visible red light. This is visible on the floor 3 m in front of the truck in the direction of travel.



Floor-Spot for safe manoeuvring



Scissor lift for two pallets (ECE 320)

11 Bumper variants for more protection
 Our rubber or steel protection bumpers prevent major damage to your truck in the event of collisions.

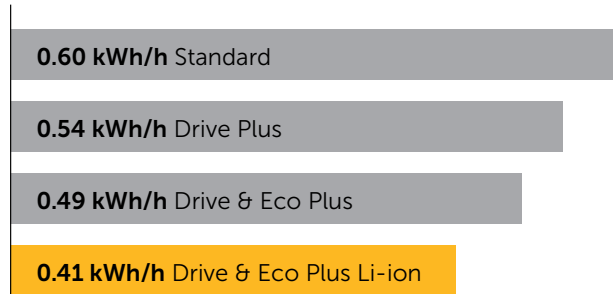
Curve Control for safe cornering
 Depending on the load carried, the individually adjustable Curve Control function automatically reduces the speed when cornering. This means: The greater the load, the lower the cornering speed. The consequence of this is increased safety of warehouse operations and significantly reduced stress on the operator.

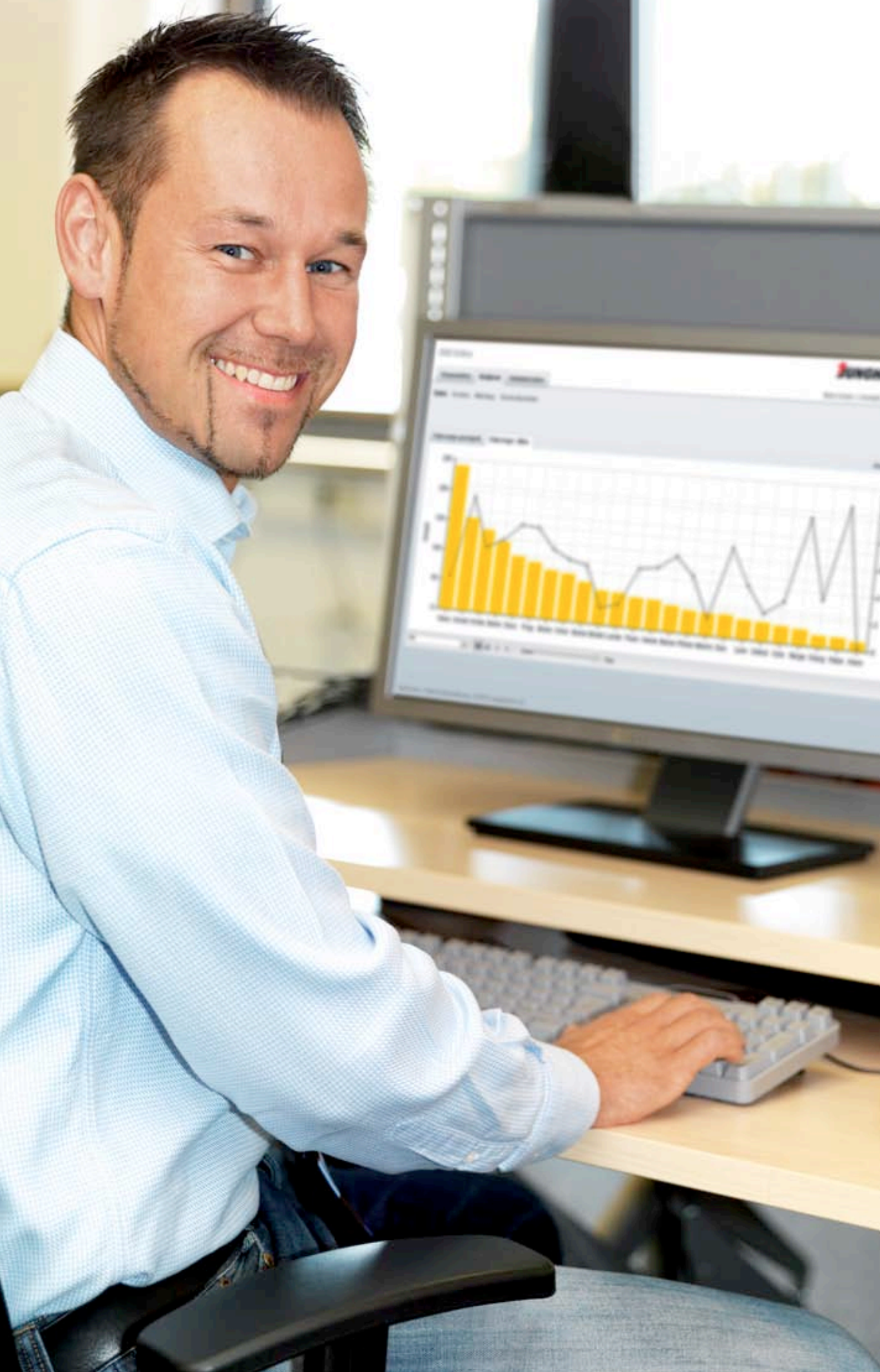
12 High-performance battery for long operations
 With the optimised energy consumption in combination with high battery capacities up to 620 Ah (XL), you can get the most out of your truck and the operating time.

2-shift guarantee for guaranteed cost advantages
 For our new trucks equipped with XL batteries, we are offering you a significant time and cost advantage: Our guaranteed 2-shift operation without boost charging, battery replacement or having a second battery available.

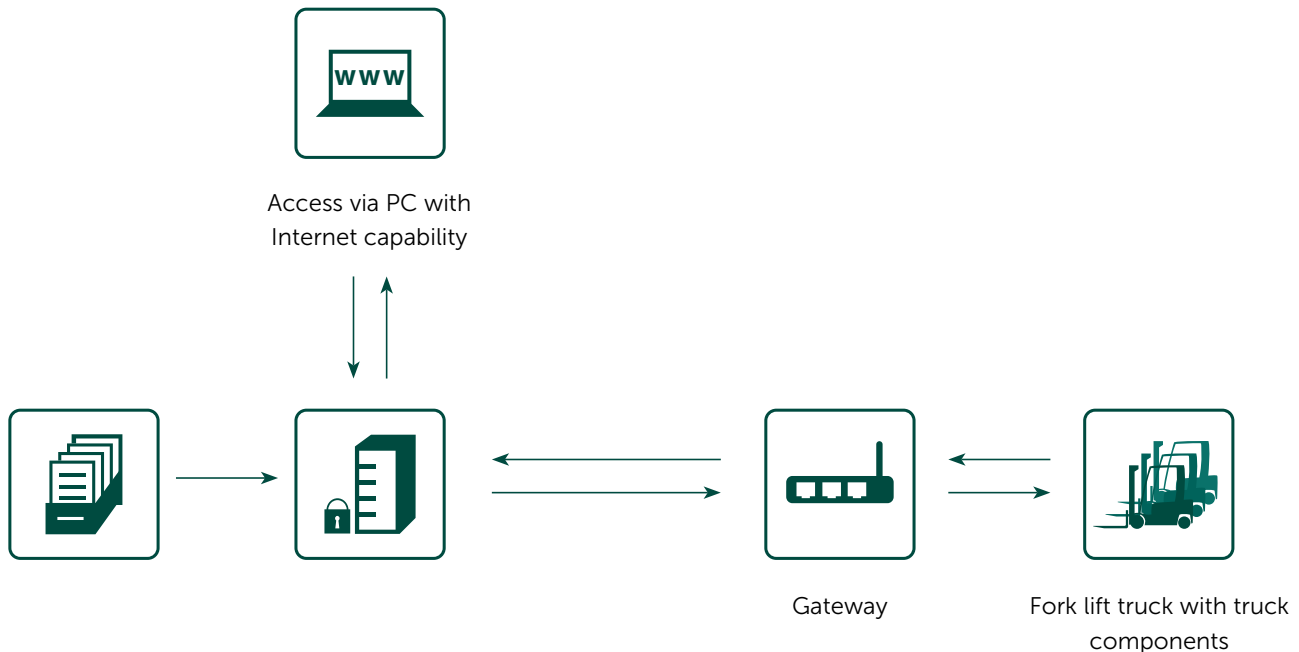
LI-ION technology Lithium-ion batteries for more flexibility
 Complicated and tedious battery changing is now a thing of the past. Today and tomorrow, our Li-ion batteries (240 Ah or 360 Ah) now give you the opportunity for short-term fast and boost charging. The significantly greater efficiency also allows for a long service life.

ECE 225 energy consumption according to VDI cycle





Easy fleet management. For extra control.



ISM Online for efficient fleet management

ISM Online is a Web-based information system for analytical collecting, monitoring and evaluation of data for a wide range of truck types. It can be used at multiple locations, internationally and is manufacturer independent. For maximum data transparency and the cost-optimised structuring of industrial truck fleets.

In total, four modules can be individually combined:

Basic module

The Basic module helps you to gain an overview of all the equipment in your fleet at all locations. It provides reports on the number of trucks per location, on their ages and on total costs as of the reporting day.

Operating costs module

Would you like to see a detailed account of costs and an overview of billing documents, service reports and operating hours? Then this is just the right module for you.

Safety module

This module will help you to increase safety in your warehouse while simultaneously reducing costs for impact damage due to access control, operator management and shock recording. Truck configuration is performed online via a PC.

Productivity module

Would you like to make your fleet even more productive and find out how your industrial trucks are being used? This module provides you with reports that will do just that. You can evaluate truck usage and optimise the current use of the fleet.

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**