

Electric Stackers Trucks.

Versatile solutions to rapidly increase your productivity.



 **JUNGHEINRICH**

INTRODUCTION

Electric stacker trucks. Powerful assistants for every application. 03

ENTRY-LEVEL MODELS**EJC M AND EMC 1**

Our entry-level models. The alternative to hand pallet trucks. 04–05

SHORT DISTANCE**EMD 1 AND EJD 1&2**

Pedestrian trucks for double-deck operation. Versatile all-rounders over short distances. 06–07

EJC 1&2

Sturdy packers for intensive use even at height. 08–09

MEDIUM DISTANCE**ERD 1&2**

Electric pedestrian stackers with integrated stand-on platform. For greater efficiency through double-deck transport. 10–11

ERC 2

Electric pedestrian stackers with fixed or folding stand-on platforms. For storage and retrieval at height. 12–13

ERC 2i

The revolutionary truck model. Highly compact and with powerful lithium-ion technology. 14–15

LONG DISTANCE**ESC 2&3 AND ESD 1&2**

Powerful electric sideways-seated stackers with high levels of operator comfort. 16–17

OPTIONS AND ADDITIONAL INFORMATION**LITHIUM-ION TECHNOLOGY**

For greater performance and fast charging times. 18–19

GREATER PERFORMANCE

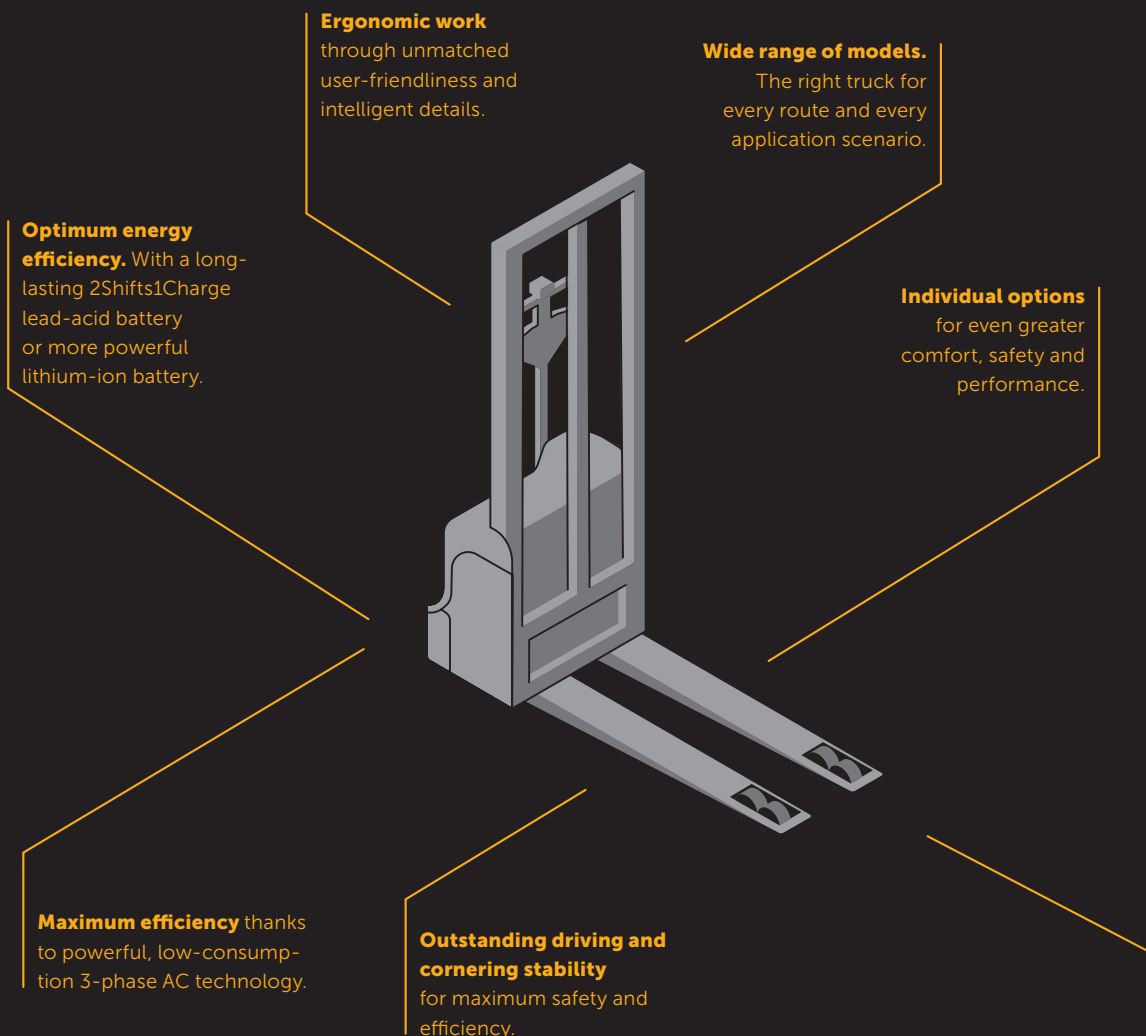
Improved safety, improved ergonomics and improved functionality for your application scenario. 20–21

JUNGHEINRICH FACTS

Leader in turnkey intralogistics solutions: information on products, systems and services. 22–23

The right assistant for every job.

Electric stacker trucks. Their strengths at a glance.



Electric stacker trucks are powerful assistants, whether in the warehouse or in the sales room. They feature excellent quality, an intuitive operating system and high productivity, especially in the double-deck version. Whether as a pedestrian or passenger, over short, medium or long distances, at Jungheinrich you will find a tailor-made solution for your needs.

Fast, easy charging thanks to on-board charger.



The EMC 110 is ideal for transporting in restricted conditions.



The mono mast version of the EJC M offers an optimal view of the fork tips and easy manoeuvrability thanks to its compact dimensions.



The entry-level model is also available in the EJC M10b wide-track version.

SERIES	ENTRY-LEVEL SEGMENT	
	EJC M*	EMC*
Model name	M 10 E M 10b E M 10 ZT M 13 ZT	110 B10
Lift height (mm)	1,540–3,300	1,540
Capacity (kg)	1,000–1,300	1,000
Travel speed (km/h)	5	5
Lift speed (m/s)	0.22	0.16

* These models are available with duplex mast (ZT), mono mast (E), ramp comfort or in a wide track version (b).

Entry-level electric stacker trucks.

EJC M and EMC 1.

The alternative to the hand pallet truck: more efficient on the go with electric drive.

EJC SERIES M

M 10 E | M 10b E | M 10 | M 13 ZT

A worthwhile purchase: the EJC M pedestrian stacker masters light stacking tasks in no time and is made for occasional use over short distances and with low loads. Even in narrow warehouses or sales rooms, it can be manoeuvred effortlessly thanks to its compact dimensions. The model has an on-board charger.

- ▶ Quickly ready for use: can be charged at any conventional 230 V socket.
- ▶ Electric drive for ergonomic operation when transporting and stacking.
- ▶ Available in different versions (mono mast, duplex mast, wide track, with duplex telescopic mast).
- ▶ Can also be used as a lift/work table.

EMC SERIES 1

110 | B10 | 110 with ramp comfort

The powerful EMC 1 stacker truck is a flexible assistant for spontaneous use. It is suitable for stacking, storing or transporting light goods over short distances and can also be used as a work table. Compared to conventional hand pallet trucks, it scores highly with increased performance and excellent ergonomics.

- ▶ Quickly ready for use: can be charged at any conventional 230 V socket.
- ▶ Extreme manoeuvrability thanks to its short front end length, ideal for tight spaces, lifts and mezzanines.
- ▶ Automatic adjustment of the lift height with intelligent lift positioning (optional).
- ▶ Thanks to ramp comfort, thresholds and uneven floors are crossed safely.



The EJC M. All important control instruments are arranged centrally: battery discharge indicator, hourmeter, emergency disconnect and key.



EMC 110: 2-inch truck display including discharge indicator and hourmeter (optional).

Double-deck transport for pedestrian operation. EMD 1 and EJD 1&2.

All-rounder over short distances: powerful, robust and versatile.

EMD SERIES 1

115i | 118

The world's shortest universal forklift in its class not only impresses with its compact dimensions: the front end length of the EMD 115i with the innovative lithium-ion battery system is just 558 mm. Its light weight also qualifies it for use in HGVs, for example. The integrated support arm lift enables double-deck pallet pick-up, which doubles the productivity of this smart all-rounder in one fell swoop.

- ▶ Flexible adaptation to the handling volume thanks to double-deck transport.
- ▶ Optionally with lithium-ion technology for short intermediate charging times.
- ▶ Extremely compact dimensions for high manoeuvrability even in the smallest of spaces.
- ▶ Ideal for use in branch offices.
- ▶ Transport by HGV possible.

EJD SERIES 1&2

120 | 222

The all-rounders in this series are sturdy and compact, ideal for loading and unloading an HGV via the loading ramp. They combine the strengths of pallet and stacker trucks in one and reach lift heights of up to 2,905 mm. Carrying two pallets enables productivity to be doubled immediately. Even inexperienced operators can quickly get to grips with the EJD; the long tiller makes manoeuvring easier and ensures the necessary safety distance.

- ▶ Manoeuvrable, efficient multifunctional trucks with low energy consumption.
- ▶ Double-deck operation for further performance maximisation in goods throughput.
- ▶ Thanks to their small dimensions, they can be used in tight spaces, e.g. in narrow-aisle sales rooms.
- ▶ Safe travel on ramps and over thresholds thanks to the ProTracLink support wheel system with castor wheels connected via a coupling arm.
- ▶ Safe pedestrian operation: long tiller with 4-step foot protection.



Quickly ready for use again: the on-board charger allows for recharging at any 230 V socket.



The EJD series 2 offers excellent visibility of the load for added safety when stacking at heights of up to 2,905 mm.



Twice as productive in the same time: the EJD 220 can accommodate two pallets in a double deck.



The EMD 115i offers maximum flexibility and increased ground clearance thanks to the integrated support arm lift.



Compact, agile and powerful, even in narrow aisles: the EMD 115i with the innovative lithium-ion battery.

SERIES	SHORT DISTANCE MULTIFUNCTIONAL	
	EMD 1	EJD 1-2
Model name	115i 118	120 222
Lift height (mm)	600-1,520	1,500-2,905
Capacity (kg)	1,500-1,800	2,000-2,200
Travel speed (km/h)	6	6
Lift speed (m/s)	0.3	0.25-0.3

Lift heights of up to 6,000 mm and high residual capacities make the EJC 220 a powerful assistant – with low energy consumption.



EJC 2 with foot protection tiller. For even greater operator safety when manoeuvring the truck.



Uneven floors, thresholds and smaller ramps are no longer an obstacle in the version with support arm lift.

SHORT DISTANCE INTENSIVE USE	
EJC 1-2*	
Model name	110 112 112z 212 212z 212b 214 214z 214b 216 216z 216b 220 220z 220b
Lift height (mm)	2,400–6,000
Capacity (kg)	1,000–2,000
Travel speed (km/h)	6
Lift speed (m/s)	0.22–0.34

* These models are available with support arm lift (z) or in a wide track version (b).

Powerhouses over short distances. EJC 1 & 2.

Versatile electric pedestrian stackers
for intensive use, even at height.

EJC SERIES 1

110 | 112 | 112z

The EJC series 1 trucks are strong and at the same time extremely manoeuvrable due to their compact design. When it comes to daily stacking and transporting, they are powerful packers that impress with their ease of use. The intuitive multi-function tiller is suitable for left and right-handers, and the battery can be quickly recharged at any 230 V socket. The version with a lithium-ion battery is recommended for intensive use.

- ▶ Effortless, efficient work even in confined warehouse environments.
- ▶ Version with support arm lift available for driving over ramps and thresholds.
- ▶ Crawl speed function when the tiller is raised provides greater safety.
- ▶ Available with different masts to adjust the lift height.
- ▶ Double-deck transport possible to maximise productivity.

EJC SERIES 2

212 | 212z | 212b | 214 | 214z | 214b | 216 | 216z | 216b | 220 | 220z | 220b

Series 2 is a sturdy, extremely versatile solution for pedestrian operation. Ideal for storing and retrieving heavy loads at height. Various safety features guarantee protection of the operator, e.g. the foot protection tiller and the optimum fork visibility. The proportional hydraulics enable gentle lifting and lowering of even large loads.

- ▶ Made for long, multi-shift operation.
- ▶ Many versions available, e.g. with support arm lift or as a wide track variant.
- ▶ Lift heights up to 6,000 mm and high residual capacity.
- ▶ positionCONTROL: rack height select for quick and easy storage and retrieval.
- ▶ operationCONTROL: overload warning (accuracy +/-100 kg) for greater safety.



With on-board charger for quick and easy intermediate charging at any 230 V socket.



Everything under one roof – work documents are safely stowed in the EJC and always at hand.

The double-deck professionals for greater throughput. ERD 1 & 2.

Electric pedestrian stacker with stand-on platform – for pedestrian or passenger use.

ERD SERIES 1

ERD 120

Whether it is for goods transport, storage and retrieval, or safe loading and unloading of an HGV, the ERD 120 is an agile all-rounder that can be flexibly adapted to the application scenario. A wide range of options for the choice of platform, drive and masts ensure individual configuration options. Thanks to its double-deck transport, productivity can be scaled up, while energy consumption remains low.

- ▶ High throughput with low consumption.
- ▶ Four stand-on platform variants: folding, spacious, compact, order picking.
- ▶ Available with advanced lithium-ion technology on request.

ERD SERIES 2

ERD 220

The ERD 220 shows its particular strengths when there are extremely high demands on the throughput speed. It combines efficient double-deck transport, in which two pallets are moved at the same time, with excellent acceleration rates and travel speeds of up to 12 km/h – with the option of more when you choose drivePLUS. At the same time, operator protection is guaranteed through comprehensive safety systems.

- ▶ Designed for the highest throughput and efficiency demands.
- ▶ With drivePLUS: increase in travel speed of up to 14 km/h.
- ▶ Load-dependent curveCONTROL for safe cornering, even at high speed.



All important parameters always in view, e.g. charge state or operating hours.



Spacious stand-on platform for maximum ergonomics and operator safety. Optionally with foot protection sensor.

The compact dimensions of the ERD enable agile, fast manoeuvring, e.g. when loading and unloading HGVs. The fixed stand-on platform provides enhanced operator safety.



The ERD with folding platform. The space-saving, flexible solution for a narrow warehouse environment.



The side entry platform allows for quick entry and exit and is therefore well suited for order picking.

Well prepared for every application scenario. The ERD is available with four platform versions: folding, spacious, compact or as a picking platform.

MEDIUM DISTANCE FLEXIBLE	
ERD 1-2	
SERIES	
Model name	120 220
Lift height (mm)	1,500-2,905
Capacity (kg)	2,000
Travel speed (km/h)	9-14
Lift speed (m/s)	0.32



With the drivePLUS option, up to 11 km/h can be achieved instead of 9 km/h – for faster travel.



The ERC 2 is suitable for transporting goods over longer distances and for storing and retrieving them on higher rack levels up to 6 m.



In the wide-track variant, the forks can be lowered to the ground, which makes it easier to pick up transverse pallets or special loads.

MEDIUM DISTANCE WITH STAND-ON PLATFORM	
ERC 2*	
SERIES	
Model name	212 212z 212b 214 214z 214b 216 216z 216b 220 220z 220b
Lift height (mm)	2,400–6,000
Capacity (kg)	1,200–2,000
Travel speed (km/h)	11
Lift speed (m/s)	0.3–0.4

* These models are available with support arm lift (z) or in a wide track version (b).

The top performers for medium distances. ERC 2.

Powerful electric pedestrian stackers for storage and retrieval at higher rack levels.

ERC SERIES 2

212 | 212z | 212b | 214 | 214z | 214b | 216 | 216z | 216b | 220 | 220z | 220b

The versatile ERC electric pedestrian stackers with a folding stand-on platform impress with their economical transport of goods over longer distances and their storage and retrieval at higher rack levels. The precise lift motor ensures gentle lifting and lowering of the load at lift heights of up to 6,000 mm. With the optional support arm lift, they are ideally equipped for double-deck transport; the wide-track version is suitable for lifting closed pallets or Euro transverse pallets. The four-wheel concept guarantees a stable position, while the platform suspension is easy on the operator's back.

- ▶ Powerful acceleration and excellent consumption values optimise efficiency.
- ▶ operationCONTROL (optional) warns of overload – for greater safety in everyday warehouse operations.
- ▶ Safe cornering thanks to the curveCONTROL assistance system.
- ▶ positionCONTROL: rack height select for quick and easy storage and retrieval.
- ▶ Overcome ramps and thresholds with ease – the optional added support arm lift allows the double-deck transport of two pallets at the same time, thereby significantly accelerating goods throughput.



Many storage options and a reader-friendly 6-inch display for operationCONTROL or curveCONTROL make everyday work easier.



Thanks to the support arm lift, obstacles such as ramps, thresholds and uneven floors can be overcome more easily.

A revolution in a compact format. ERC 2i.

The innovative truck concept with lithium-ion technology.
For maximum performance in the smallest of spaces.

ERC SERIES 2i

214i | 214zi | 214bi | 216i | 216zi | 216bi

The high-performance ERC i stacker trucks are an innovative truck concept. All models are equipped with lithium-ion technology and surprise with their revolutionary, award-winning design. The trucks are extremely compact, manoeuvrable and can therefore also be used in narrow storage spaces, where high throughput is what counts. With the ERC i models, rack heights of up to 6,000 mm can be reached. If two pallets are to be transported at the same time (double deck), the version with an additional support arm lift is ideal. In the wide-track version, the ERC i can even handle bulky goods, such as special loads or Euro transverse pallets. The stable, cushioned stand-on platform ensures perfect ergonomics. The three-sided protection allows the operator to move safely through any environment.

- ▶ Innovative combination of compact truck design and lithium-ion power.
- ▶ High throughput with double-deck transport.
- ▶ Diverse assistance systems for optimal safety and even greater efficiency.
- ▶ Can be used for medium and long distances.



The optional panoramic overhead guard offers additional protection against falling loads while at the same time providing optimal upward visibility.



The smartPILOT electric tiller steering enables precise and easy steering with one hand.



The fixed stand-on platform with three-sided protection offers safety and ergonomics for the operator.



ERC 214zi/216zi:
Extremely compact and manoeuvrable thanks to the innovative truck concept with lithium-ion technology.



ERC 214bi/216bi: The ERC wide track model. Perfect for special loads and Euro transverse pallets.



ERC 214zi/216zi with convenience charging system. The charging interface is ergonomically easy to reach – for quick and frequent intermediate charging.



The compact powerhouse with additional lift – for increased throughput: ERC 214zi/216zi

SERIES

Model name

Lift height (mm)

Capacity (kg)

Travel speed (km/h)

Lift speed (m/s)

MEDIUM DISTANCE LITHIUM-ION DRIVE

ERC i*

214i | 214zi | 214bi | 216i | 216zi | 216bi

2,400–6,000

1,400–1,600

12

0.35

* These models are available with duplex mast (ZT), mono mast (E), support arm lift (z) or in a wide track version (b).



ERC 316z: The support arms can be raised independently of the forks (support arm lift). Ideal for transport on uneven ground.

The sturdy frame withstands even the highest demands.



The ergonomic sideways-seated position always gives the operator the best view, even when changing direction frequently.



Throughput is increased quickly with double-deck transport.

SERIES	LONG DISTANCE	
	ESC 2-3	ESD 1-2
Model name	214 214z 216 216z 316 316z	120 220
Lift height (mm)	2,800-6,200	1,660-1,960
Capacity (kg)	1,400-1,600	2,000
Travel speed (km/h)	9.1	9.1-12
Lift speed (m/s)	0.23-0.24	0.22-0.39

Electric sideways-seated stackers for the long haul. ESC 2 & 3 and ESD 1 & 2.

Powerful packers with high travel and acceleration performance and maximum operator comfort.

ESC SERIES 2&3

214 | 214z | 216 | 216z | 316 | 316z

The ESC shows its strengths in intensive long-haul operations. It is sturdy, manoeuvrable and compact, and can reach heights of up to 6,200 mm. The sideways seating position ensures excellent operator visibility at all times. Series 2 with a width of just 820 mm is particularly recommended in tight spaces. If the floor is uneven or there are obstacles such as ramps to be overcome, series 3 with support arm lift is the perfect choice.

- ▶ Excellent acceleration and low consumption.
- ▶ Ergonomic operator position for maximum comfort.
- ▶ More efficiency thanks to high residual capacities and a powerful lift motor.
- ▶ Suitable for storage and retrieval at height.

ESD SERIES 1&2

120 | 220

The ESD models are versatile, powerful and particularly suitable for loading and unloading HGVs. The double-deck pick-up enables high throughput rates to be achieved, and the low-consumption, powerful 3-phase AC motor shows its strengths when transporting over longer distances. While the ESD 120 with its folding seat enables pallets to be positioned on HGV drop sides, the operator enjoys full comfort in the slightly wider ESD 220.

- ▶ High throughput through double-deck loading.
- ▶ Ergonomic seating position for maximum visibility.
- ▶ Electric steering for easy manoeuvring.
- ▶ Short front end length for narrow storage areas.



An ergonomically designed workplace offers maximum comfort for fatigue-free operation.



The multi-function lever offers full control over all lift and travel functions, even without changing your grip.



Significantly higher stamina for multi-shift operation.



Three times longer service life than with lead-acid batteries.

0.0

Zero maintenance.



5-year guarantee.



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



50% charge in just 30 minutes, and 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 the batteries, chargers and all important truck components in-house. This ensures perfect interplay between all parts of the system, thus ensuring 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 durability 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 revert to the original technology within six months of delivery – without having to give any reasons.

ADVANTAGE: CONVENIENT CHARGING. READY FOR USE AGAIN QUICKLY.

Combine the power of your lithium-ion trucks with the advantages of the Jungheinrich convenience charging system. You can charge your electric stacker truck quickly and reliably without opening the hood. This ensures that downtimes are minimised, the battery capacity is fully utilised, and your trucks are ready for use again in no time at all.

Perfect interplay:
convenience charging plug
and suitable charging
interface on the truck.



Full li-ion power.
Full conversion right.

LI-ION
technology

5 YEARS
GUARANTEE
ON LI-ION BATTERIES

Play it safe with Jungheinrich.

It is our aim to make your processes as efficient as possible while protecting people, machines and goods. Because even though processes are becoming more and more complex and dynamic, there is no compromise on safety. Here you will find a selection from our wide-ranging portfolio, which can be perfectly adapted to your application scenario.

PERFECT PROTECTION



Overhead guard

With the ERC 2i models, the retrofittable DIN ISO 6055 overhead guard offers the best protection against falling loads. Optionally available with cross struts or visibility-optimised panoramic overhead guard, which allows for upward visibility, thereby giving the operator full control over the situation.

3-sided platform

ERC i models: the platform encloses the operator on three sides and offers optimal freedom of movement despite the compact truck dimensions.

Foot protection tiller

The operator's feet must be well protected during every travel manoeuvre. Depending on the tiller inclination (4-stage), the travel speed is automatically adjusted or the truck comes to a complete stop.

OPTIMAL ERGONOMICS



Intuitive controls

Optimally arranged controls with numerous options allow the operator to concentrate fully on the task at hand. A spring-loaded lift/lowering mechanism ensures that loads are gently and safely lifted and then set down again.

Clever storage system

Jungheinrich stacker trucks offer practical storage compartments for stowing important information or other aids in your application scenario.

Ergonomic seating

In the sideways-seated stackers for long distance, the comfort seat with weight adjustment, padded armrest and padded knee area ensures fatigue-free work and the best possible visibility.

Convenience charging function

The combination of convenience charging plug and convenience charging socket ensures that the truck is quickly ready for use again – in just a few simple steps.



ASSISTANCE SYSTEMS

positionCONTROL

Programmable rack height select for quick and easy stacking and retrieval. With SNAP function, i.e. automatic stop at the next rack level.

operationCONTROL

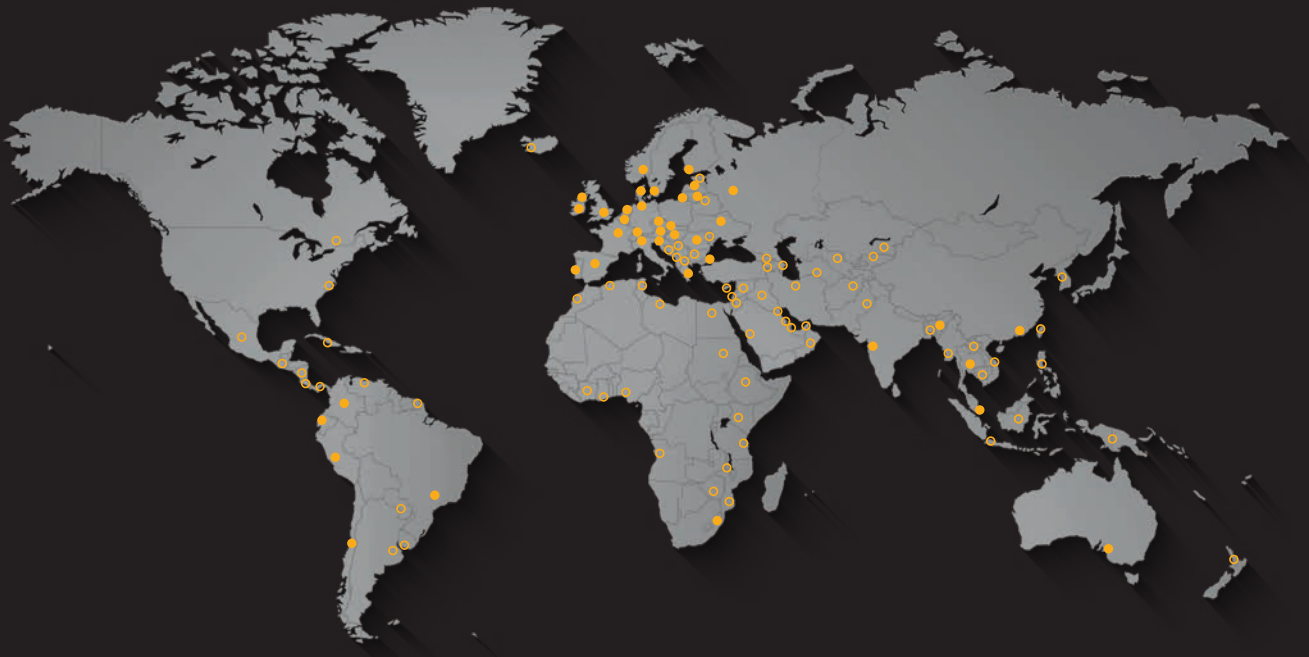
The operationCONTROL assistance system records the current load weight and the lift height and issues a warning signal (tactile, acoustic and visual) as soon as the residual capacity of the truck is exceeded. This prevents the truck from tipping and enables quick operation with increased security.

curveCONTROL

Master every curve with confidence, adapted to the current load and the current steering angle. This is possible with curveCONTROL. The smart solution for greater safety in the warehouse automatically lowers the speed when cornering, depending on the load and steering angle, thereby ensuring maximum safety on every journey.



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



● Our own direct sales companies in 40 countries.

○ Partner companies in more than 70 other countries.

Over 18,000 employees.

More than 5,400 service engineers across the globe.

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 comprehensive process knowledge and extensive experience in a wide range of industries, we can provide you with tailor-made logistics systems, ranging from manual to semi-automatic and fully automated solutions. We will thus work together 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 to suit all requirements, 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 reconditioning 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 individual solutions for trucks, racking, warehousing and system solutions, while 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

