

Warehouse Management Solutions.

Intelligent, future-proof, systematic warehouse management.



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Steer your warehouse to success.

Integrated management, control and optimisation of warehouse processes.

Wide functional scope

Individual configuration from more than 60 modules, tailored to your requirements as well as continued development of the entire system.

Intelligent process support

thanks to more than 180 highly optimised, combinable algorithms. Your artificial intelligence in the warehouse for early detection and reporting of critical situations.

Uniquely high degree of future-proofing

The forward compatibility facilitates easy updates to the latest WMS release. Customer-specific parameters and developments are retained.

User-friendly interface

Simple, intuitive operation with individually designed dialogue for optimum mapping of your processes. Sets industry-wide standards.



Decades of experience

More than 60 years of intralogistics experience and over 30 years of experience in the development and implementation of intralogistics software, including specially trained 24/7 in-house support.

Outstanding integration of warehouse technology

Excellent integration of conveyors and special warehouse types without the otherwise familiar interface problems via the fully integrated material flow computer from Jungheinrich.

Maximum transparency

by interconnecting the entire warehouse. View stocks in real time, increase delivery reliability, reduce errors and minimise returns.

With the intelligent Warehouse Management Systems (WMS) by Jungheinrich, you can manage, control and optimise your warehouse more efficiently than ever before, enabling you to benefit today from the developments of tomorrow. We accompany you step-by-step into the future of digital intralogistics and will be at your side as process and software experts, providing comprehensive advice.

Which WMS for which warehouse?

We have the optimal solution for every scenario.

OVERVIEW OF OPTIONS.

Irrespective of whether you are building a new warehouse or expanding an existing facility: we offer you customised solutions for every company and warehouse size, every degree of automation and every industry. In doing so, we focus on optimising your processes in the long term and making your system future-proof. In addition, our WMS solutions undergo continued further development based on the latest technologies and intralogistics trends, such as artificial intelligence.

► Jungheinrich WMS Essential

The Jungheinrich WMS Essential is the entry-level solution for professional warehouse management. With numerous tried-and-tested and standardised processes and functions, with which you can control small to medium-sized, manually or partially automated warehouses more easily, efficiently and cost-effectively than ever before.

► Jungheinrich WMS

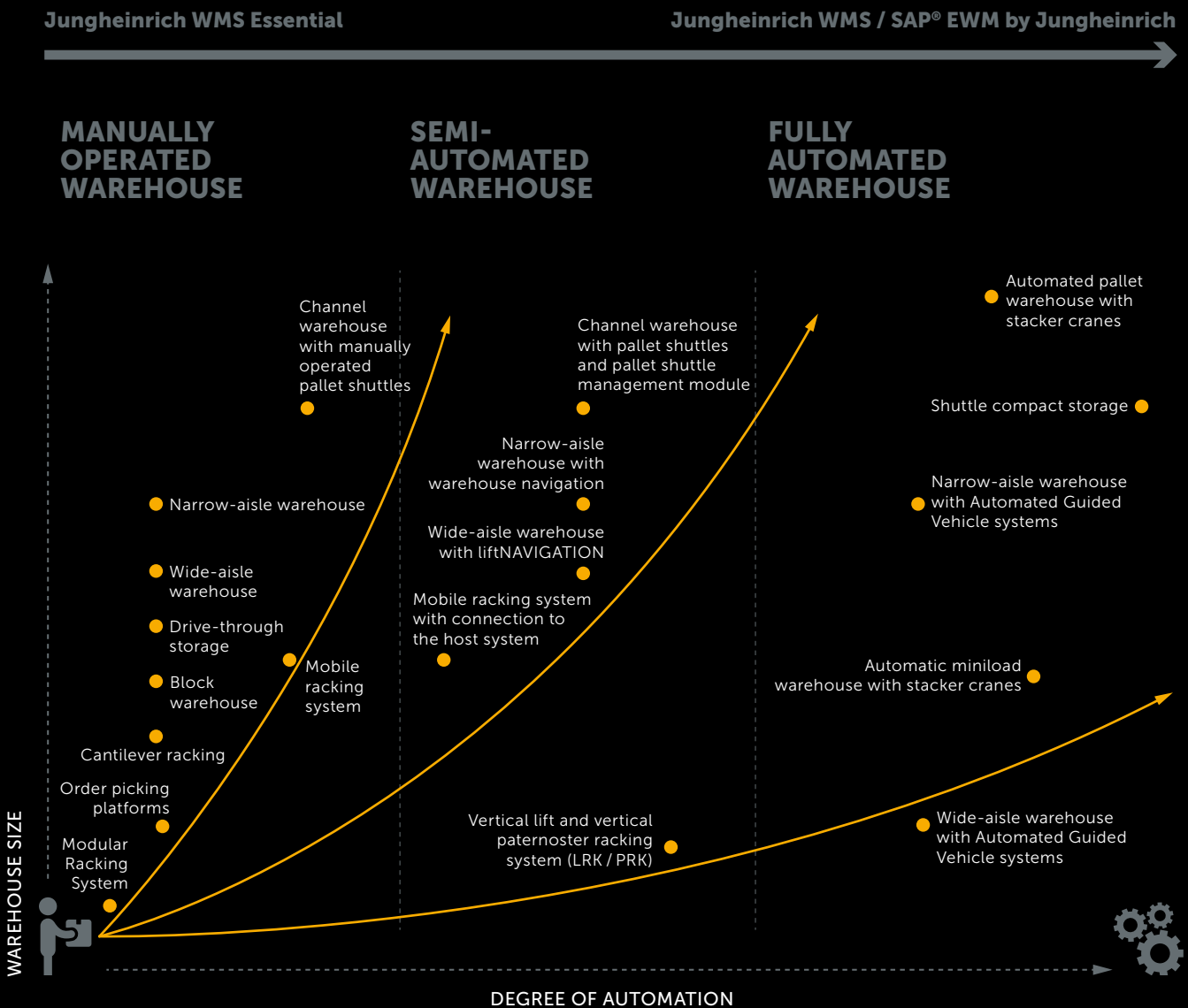
The integrated Jungheinrich WMS is the intuitive software solution that adapts to your processes. It is ideal for medium to large, partially or fully automated warehouses. Even complex processes can be simply mapped using the software. Thanks to the multi-dimensional configuration model and the numerous additional modules, the system can be adapted to your requirements and also individually expanded if desired.

► SAP® EWM by Jungheinrich

If you rely on a purely SAP®-based IT strategy, we will be by your side as a certified SAP® EWM integrator and, thanks to decades of experience in the implementation of warehouse management systems, we offer optimum support during the introduction of SAP® EWM in your warehouse. In addition, our internally developed Jungheinrich MFS Add-On for SAP® EWM supports you in integrating your warehouse technology and efficiently managing your warehouse.

Our WMS experts will support you in selecting your optimum solution and will be happy to provide you with a non-binding initial consultation.

OVERVIEW OF WAREHOUSE TYPES AND WMS SOLUTIONS.



Jungheinrich WMS Essential.

From analogue to digital: efficiency for your warehouse.

BRING JUNGHEINRICH QUALITY TO YOUR PROCESSES.

Controlling small and medium-sized warehouses efficiently is possible with the Jungheinrich WMS Essential. Tried-and-tested and standardised processes make it easier for you to enter the future of digital warehouse management. Not only can you monitor your stocks and orders at all times, but you can also organise all processes in your warehouse more economically and transparently than ever before, from receiving goods to putaway and retrieval as well as picking and goods-out.

The Jungheinrich WMS Essential can be implemented quickly thanks to its modular structure; it is seamlessly integrated into your existing IT system landscape and is designed to be forward compatible. This means that it can be adapted to your new requirements at any time and expanded accordingly. Flexibility is also the maxim when it comes to price: You may choose between a one-off payment or software-as-a-service licensing.

- ▶ Efficient control of small and medium-sized manual warehouses.
- ▶ Support for the most common warehouse technology.
- ▶ Practical functions such as label printing and warehouse zoning.
- ▶ Intuitive operation thanks to a modern, user-friendly interface.
- ▶ Flexible expandability due to modular design.
- ▶ Attractive entry price.
- ▶ Fast implementation thanks to standardised processes.
- ▶ Easy integration thanks to interfaces to all common host systems.
- ▶ Trained support with up to 24/7 availability.
- ▶ Upgrade to the even more extensive Jungheinrich WMS possible at any time.



Jungheinrich WMS Essential core modules



Jungheinrich WMS Essential additional modules

MAIL ORDER BUSINESS EXAMPLE:

- Packing**
 - ▶ Packing using the PC client or terminal.
 - ▶ Monitoring all packing processes.
- Delivery note printing**
 - ▶ Automated or manual printing.
 - ▶ Accelerated shipping process.
- Returns**
 - ▶ Complete support for returns handling.

PRODUCTION EXAMPLE:

- Horizontal replenishment**
 - ▶ Automated internal warehouse replenishment from the reserve warehouse to the order picking warehouse.
- Quality inspection at receipt**
 - ▶ Support for the QA process.
 - ▶ Blocking of defective goods.
- LRFK / PRK support**
 - ▶ Integration of warehouse lifts into the WMS.
 - ▶ Efficient provision of trays.

FORWARDING AGENT EXAMPLE:

- Stock label printing**
 - ▶ Individual format for stock label printing in the course of goods receipt.
- Multi-client capability**
 - ▶ Client-specific classification of stocks.
 - ▶ Simplified accounting.
- Loading**
 - ▶ Safeguarding the loading of HGVs.
 - ▶ Continuous process support.

Jungheinrich WMS.

The comprehensive solution for intelligent warehouse control.

EFFICIENCY IN ALL AREAS.

The higher the degree of automation in your warehouse and the more complex the processes, the more important it is to have a warehouse management system that adapts to your individual processes, yet remains simple and intuitive to operate. The Jungheinrich WMS offers exactly this. You can increase the efficiency of your intralogistics processes, reduce your costs by up to 70 % and bring a consistently high level of transparency to every area of your warehouse.

As the world of intralogistics is constantly evolving, the Jungheinrich WMS never stays the same. Our in-house developers monitor new intralogistics trends, such as artificial intelligence, and translate them into smart functions. The forward compatibility of our system allows you to upgrade to the latest version at any time, benefiting from the latest functional developments – all while maintaining your customised parameters. This will ensure that your warehouse always remains fit for future intralogistics requirements.

- ▶ Intelligent warehouse management for every industry and every degree of automation.
- ▶ Customised solution with a wide range of functions as standard.
- ▶ Maximum stock transparency and process reliability.
- ▶ Intuitive operation thanks to user-friendly interface.
- ▶ Excellent integration of warehouse technology thanks to fully integrated material flow controller.
- ▶ 24/7 in-house support, also via remote connection.
- ▶ Future-proofing thanks to more than 30 years of experience and continued further development by Jungheinrich intralogistics experts.



Jungheinrich WMS core modules

Jungheinrich WMS additional modules

Truck guidance system modules

Interface modules

Jungheinrich WCS / MFC core modules

Jungheinrich WCS / MFC additional modules

Goods receipt, quality assurance

- 1 Goods receipt
- 2 Quality assurance

Putaway and retrieval in manual and automated warehouse areas

- 3 Single-stage putaway and retrieval in manual warehouse areas
- 4 Multi-stage putaway and retrieval in narrow-aisle warehouses
- 5 Putaway and retrieval in automated high-bay warehouses with conveyor system connection
- 6 Putaway and retrieval in multi-depth racking

Person-to-goods order picking

- 7 Pick-by solutions
- 8 Replenishment process

Goods-to-person order picking

- 9 Putaway and retrieval in automatic miniload warehouses
- 10 Integration of lift systems

Workplaces for consolidation, value added services and packing

- 11 Consolidation and packing
- 12 Kit creation / kittings

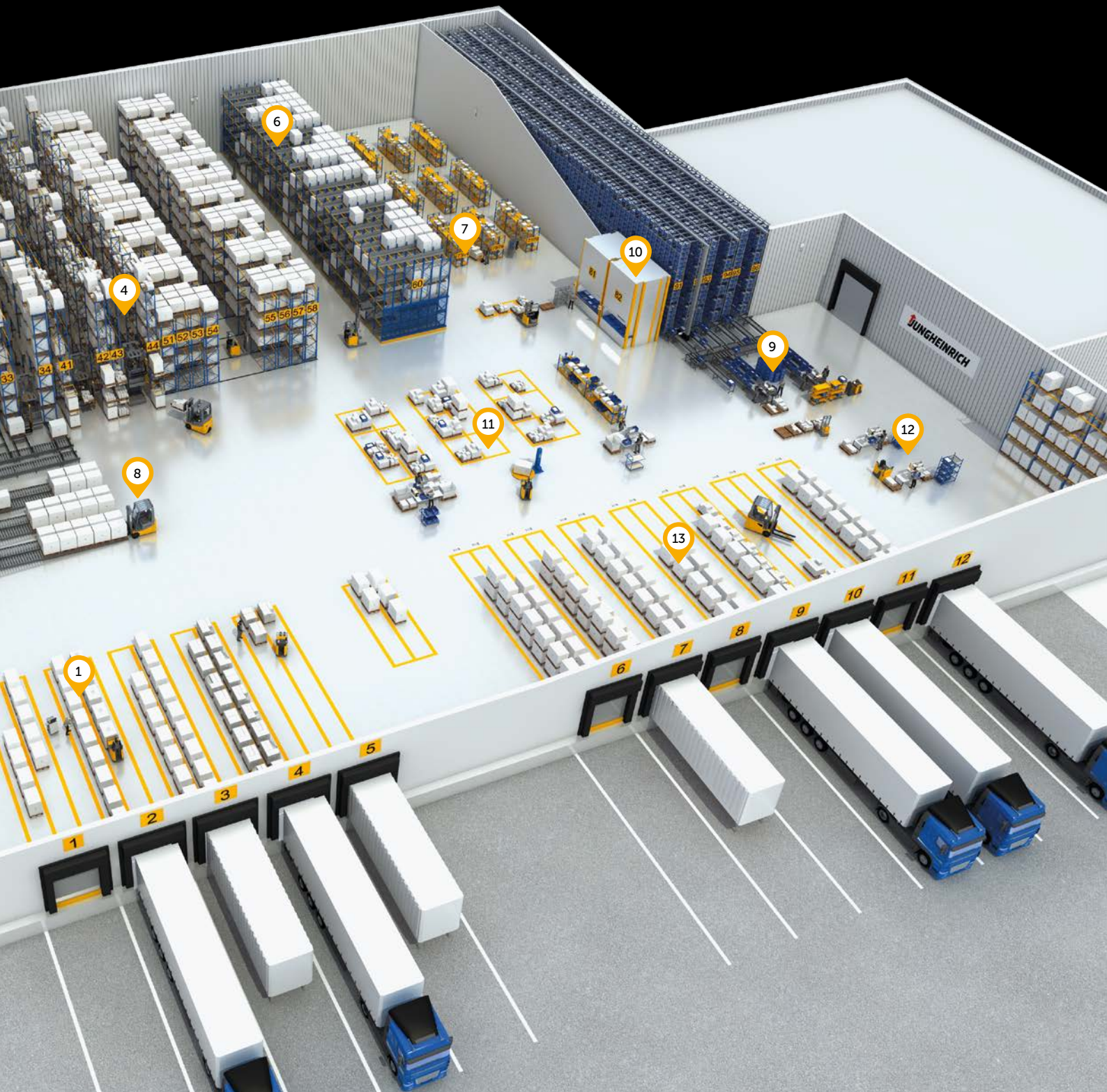
Optimised material flows at goods retrieval

- 13 Goods issue and dispatch preparation

Your IT solution for warehouse management

- 14 Control centre functionalities and hardware system requirements





The **GS1** module can be used to scan and print labels in the so-called Global Standard One format. The **Serial number management** and **Batch management** modules make it significantly easier to identify the goods.



The **Empties management** module enables you to always keep track of your empties receivables and liabilities. It provides particular support when empty pallets or containers cannot be exchanged concurrently during delivery or collection because, for example, the freight carrier collecting them does not bring any pallets or brings too few pallets.



The **Hazardous goods / hazardous substances** module helps you to correctly observe hazardous goods restrictions relating to your operational processes as well as the correct storage of hazardous substances in accordance with the applicable regulations.

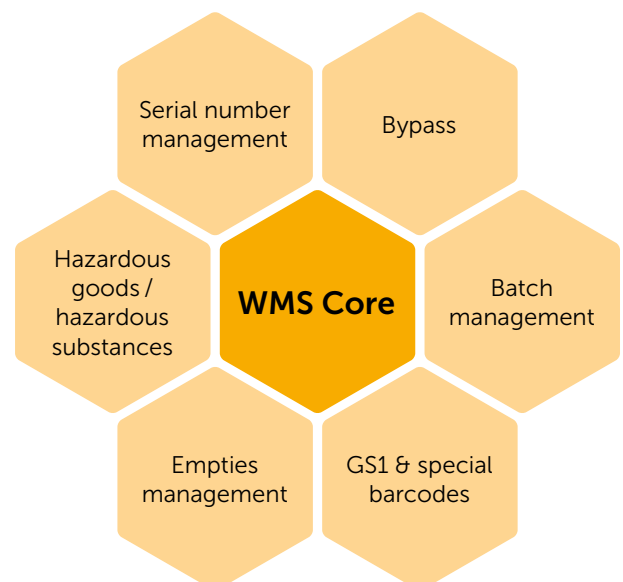
There is an existing picking order? The **Bypass**-module ensures that goods are not even stored in such cases. This saves you unnecessary transports and additional work steps, thereby shortening your delivery times.

Goods receipt.

Process reliability from the outset.

SIGNED, SEALED AND DELIVERED.

Goods receipt includes all the necessary steps for receiving, inspecting and putting away incoming goods. Save time, space and resources to make the process more efficient and achieve the optimum solution. The Jungheinrich WMS will assist you in doing just that. You can assign goods receipts to a purchase order via the order number and identify them quickly and efficiently. For this purpose, all necessary order data is transferred via an interface to the host system. You can also simply collect unplanned goods receipts without advice slips in the Jungheinrich WMS. A quality inspection can optionally be carried out in order to block goods with quality defects for customer orders.



Putaway and retrieval.

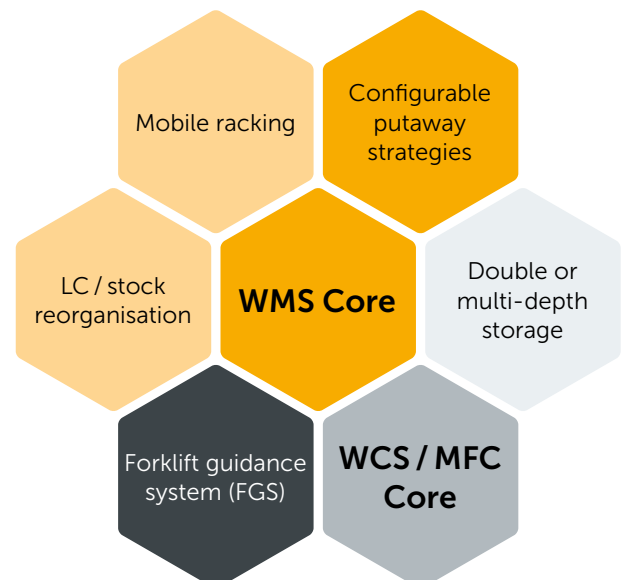
The optimum strategies for manual and automated warehouse areas.

IDENTIFYING AND UTILISING OPTIMISATION POTENTIAL.

The Jungheinrich WMS can be used to map and intelligently control both manually and automatically managed areas. The Jungheinrich WMS uses individually tailored, configurable **putaway and retrieval strategies** in different warehouse areas, depending which are best suited to your purpose. Sophisticated algorithms ensure that every opportunity for improvement is utilised. This calculation takes into account physical factors in the warehouse as well as the characteristics of the goods themselves.

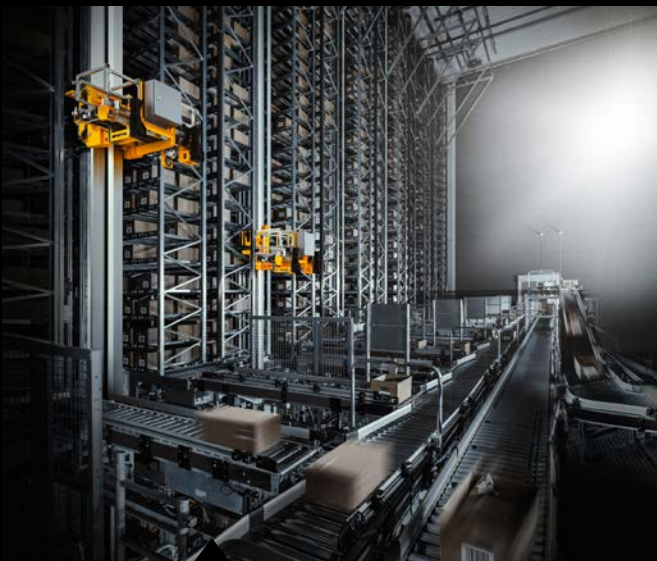
With single-stage putaway, which is mainly used in manual environments, a received load unit is picked up at goods-in and taken directly to the destination storage location. Identification of the storage locations in the racking is possible via an RFID tag, for example.

Multi-stage putaway or retrieval processes are primarily used in narrow-aisle and high-bay warehouses. The integration of Automated Guided Vehicles is also possible for the perfect interplay of warehouse strategy and transport.

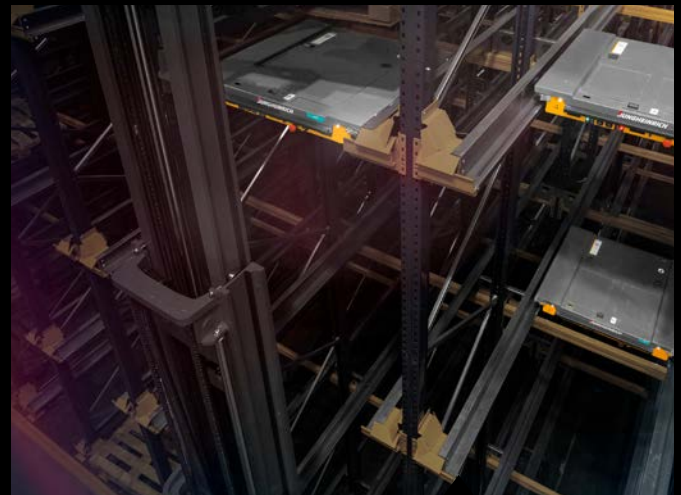




The **Forklift guidance system (FGS)** module optimises upcoming goods movements within the entire warehouse. Based on the selected warehouse strategy, the transport orders are transmitted to the trucks with optimised routing and processing. This ensures that extensive movements through the warehouse are now a thing of the past. In addition, all work instructions appear directly on the truck terminal. The Jungheinrich WMS forklift guidance system helps to facilitate efficient double cycles, reduce travel distances and minimise empty runs and waiting times. Additional transport efficiency for narrow-aisle trucks is also achieved by using warehouseNAVIGATION of the Jungheinrich Logistics Interface.



The material flow controller (**WCS / MFC Core**) integrated in the Jungheinrich WMS optimises your material flow and ensures efficient transport management, troubleshooting and storage location searches with the help of highly optimised algorithms. The transport instructions are transferred from the MFC to the truck control system. After transferring a pallet onto the conveyor system, the material flow controller accepts responsibility for its subsequent putaway in the automated warehouse system. The transport, reorganisation and optimisation strategies used here are specially customised to your needs and processes. In this way, the material flow controller steers the pallet on the conveyor system and via the stacker crane to its destination.



Double or multi-depth storage, e.g. in channel warehouses, drive-through storage racking, push-back or drive-in racking, can also be mapped in the Jungheinrich WMS. When storing or retrieving goods in multi-depth areas, the Jungheinrich pallet shuttle can also be fully integrated and controlled via the Jungheinrich WMS.

Other modules in this operational scenario:

- ▶ **Mobile racking** can be controlled directly via the Jungheinrich WMS and the corresponding destination aisle can be opened automatically.
- ▶ The **Stock reorganisation** module facilitates a recalculation of the optimum assignment per storage location - for maximum efficiency in highly automated environments.

Replenishment strategies can be configured for each warehouse area and used as required. Using the **Forklift guidance system**, the replenishment instruction will appear directly on your employee's terminal. The distribution of the instructions takes place based on defined criteria such as the optimisation of routes and resources.



The integrated **Control centre incl. dashboard** enables you to utilise and monitor your personnel and material resources at any time. Simultaneously, you have the option to process your orders in a timely manner and with significantly less effort.



The **Paperless warehouse processes** module enables your employees to order pick with a digital wireless terminal and receive all relevant information in real time. By providing direct feedback to the WMS, the integrated scanner further increases the efficiency of information acquisition.

Other modules in this operational scenario:

- ▶ **Pick-by-Voice** order picking is a convenient alternative to the wireless terminal. Your employees are able to keep their hands free. The result: improved ergonomics with a noticeably reduced error rate.

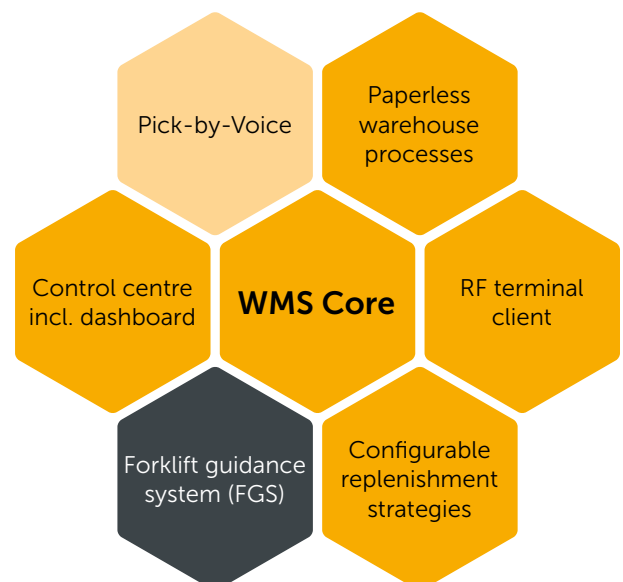
Person-to-goods order picking.

Efficiency – for your most important
process in the warehouse.

THE RIGHT STRATEGY FOR EVERY PURPOSE.

Whether your business is in distribution or production, order picking is the key process in any logistics system. Jungheinrich will increase your efficiency with a variety of order picking strategies, e.g. order-oriented, product-oriented or parallel order picking as well as multi-order picking. At the same time, your employees are guided through the warehouse using optimised routings.

In addition to an availability check of the ordered items, the software also takes into account any item or order-specific requirements such as FIFO, batch requirements or quantity optimisations when calculating the optimum picking actions.



Goods-to-person order picking.

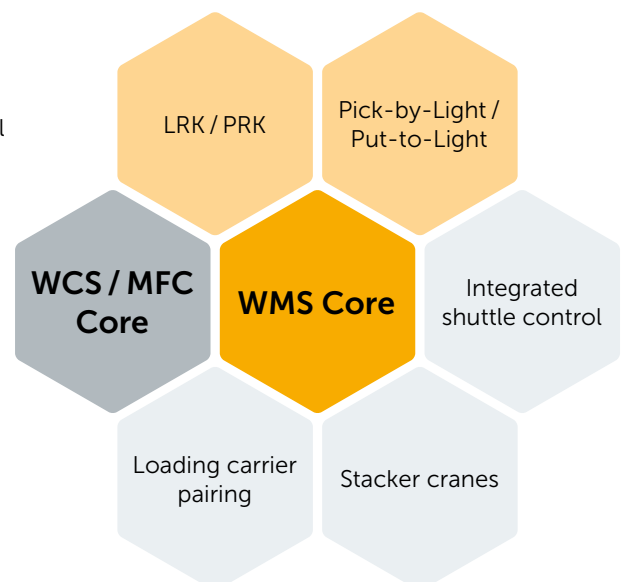
Ergonomics – focusing on picking.

COMPLETE AUTOMATION OF YOUR PICKING PROCESS.

Thanks to the outstanding fully integrated material flow controller (**WCS / MFC Core**), the Jungheinrich WMS is also able to take on the control and management of complex automated warehouse systems. The **Stacker crane** module facilitates the seamless connection of diverse stacker cranes, from pallet to miniload stacker cranes with single and multiple load handling devices.

Other modules for this operational scenario:

- ▶ Using the **Integrated shuttle control** module, you can also manage your miniload shuttle warehouse with maximum efficiency, thereby creating the optimum prerequisites for high-performance goods-to-person order picking.
- ▶ When retrieving goods in double- or multi-depth automated systems, the **Loading carrier pairing** module allows you to achieve additional efficiency increases and consistently high utilisation of the trucks.
- ▶ The **Pick-by-Light / Put-to-Light** module enables you to connect Pick-by-Light systems which significantly increase process reliability when order picking thanks to the additional visual support.



Automatic miniload warehouses and the corresponding stacker cranes are used in high-performance environments and are controlled via the **Stacker crane** module in the Jungheinrich WMS. With the use of stacker cranes, the putaway of goods from the workplaces as well as the retrieval of goods to the workplaces take place automatically. This enables you to enjoy accelerated processes and a reduced error rate.



The Jungheinrich vertical lift system (LRK) and the Jungheinrich vertical paternoster racking system (PRK) can be managed entirely via the Jungheinrich WMS using the **LRK / PRK** module. Order picking aids such as the laser pointer and the position display of the vertical lift or paternoster racking can also be controlled this way. The result: high speeds, minimum waiting times and perfected tray handling for more efficient order picking.

Based on more than 30 years of experience in digital intralogistics in interaction with automated systems, Jungheinrich offers **more than 180 combinable control and optimisation strategies:**

Single cycles

Minimised shifting

Double cycles

Product-oriented properties

Multiple cycles with n x LHAs

Order picking-oriented characteristics

LHDs Priorities

Sequences

Work zones

Bypasses

Aisles

Multiple putaway

ABC

Nearby location

... and much more



The **Consolidation** module brings together items from different warehouse areas for the respective customer order. **Packing** itself is generally controlled via a user dialogue on a **PC client**. This straightforward user guidance lessens the mental strain on your employees and reduces the error rate. All the necessary documents such as the package vouchers or shipping labels are also printed during packing.



With the **Product kit** module, the Jungheinrich WMS facilitates the creation of a new product by means of two or more other products. Following this, a new product label or other documents can then be printed by the Jungheinrich WMS. **Batch management** is also becoming more transparent: batches of individual components are saved when processing a production order and can easily be viewed. Optimum traceability back to the individual part is possible at any time.

Other modules in this operational scenario:

- ▶ The **Container precalculation** module calculates the optimum loading pattern for goods in the shipping container and arranges the packing and picking sequence in such a way that the volume and weight of the shipment are utilised in the best way possible.

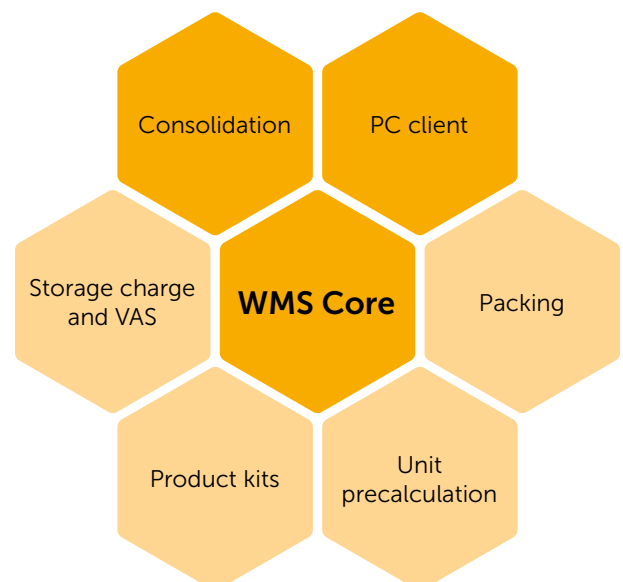
Workplaces for consolidation, value added services and packing.

Our industry experience is to your advantage.

WE KNOW WHAT MOVES YOUR BUSINESS.

Benefit from our broad industry experience and the perfectly tailored functions of our intralogistics software. The individually configurable strategies for retrieval enable you to efficiently handle your **Consolidation** and **Packing** processes at your workplaces using the Jungheinrich WMS.

The **Storage charge and VAS** module creates the basis for billing services in your warehouse accurately and according to performance. The recorded data is exported directly from the Jungheinrich WMS via an interface. This ensures that nothing stands in the way of a timely settlement of the service to your customers.



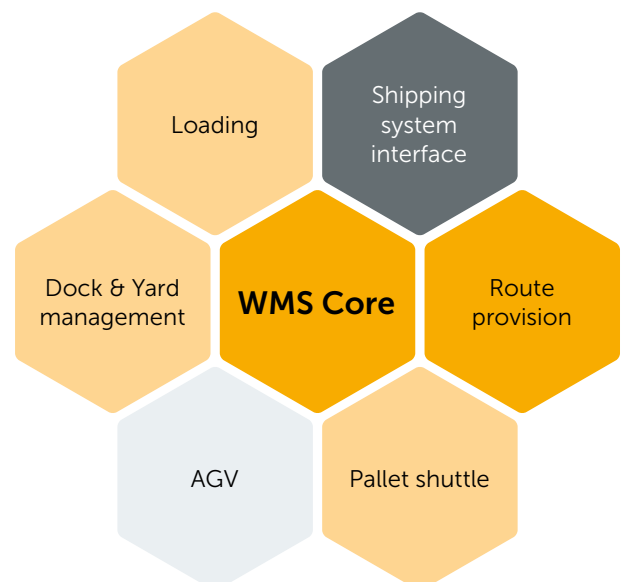
Optimised processes at retrieval.

Transparency that you see in the warehouse.

EVERYTHING IN SIGHT UNTIL THE END.

In order to satisfy your customers in the long term and to meet the growing demands of Intralogistics 4.0, it is essential to meet agreed delivery dates and to quickly identify and prevent any potential delays. The Jungheinrich WMS will help you to meet precisely these goals by making your processes consistently transparent, seamlessly recording information on every order and proactively identifying and reporting bottlenecks.

The configurable retrieval strategies as well as the optional packing and loading modules guarantee that goods retrieval is also optimally managed. All important documents are reliably printed in the respective process step and, thanks to complete traceability, you always have an overview of how the goods were packed and when they left the warehouse.





After the packing process, the packages are delivered to goods-out. The **Loading** module facilitates the actual preparation for shipping. Required documents such as the bill of lading are printed by the Jungheinrich WMS. The **Route provision** module enables several orders to be combined in one route. Individual packages are loaded into the HGV according to the route sequence in order to ensure fast retrieval at the destinations. The **Shipping system interface** makes all relevant data on the packages available in digital form for shipping providers or shipping software.

The **Dock & Yard management** module enables you to model and fully manage docks and parking areas – seamlessly integrated into all your warehouse processes in the Jungheinrich WMS. You create and coordinate all HGV departures and arrivals by means of this simple operation. The included timeslot management creates full scheduling transparency and the order overviews per dock reduce errors during the loading process.



Other modules in this operational scenario:

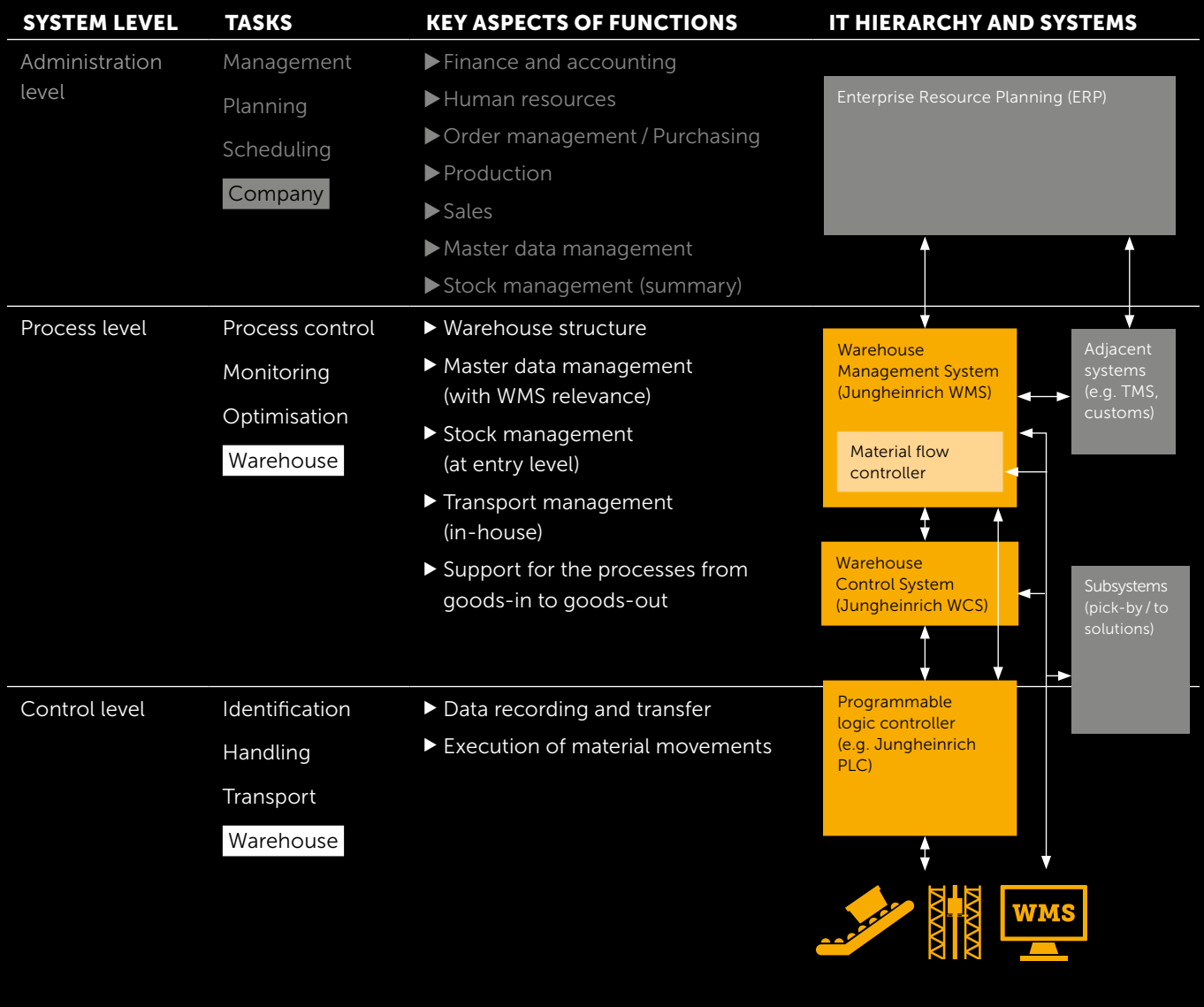
- ▶ The control of all important shuttle functions is possible via the Jungheinrich WMS with the aid of the **Pallet shuttle** module.
- ▶ The **Automated Guided Vehicle** module enables you to control your Automated Guided Vehicle system in narrow aisles directly via the fully integrated material flow controller of the Jungheinrich WMS.

CLEAR DEMARCATION – CLEAR RESPONSIBILITIES.

While you can use your **ERP system** to manage all data (e.g. for Controlling, Human Resources, Production), thus scheduling and coordinating your business tasks, it is the task of the **Warehouse Management System** to bring transparency and order to your warehouse by managing, controlling and optimising it in an integrated fashion.

Consequently, the WMS maintains a constant exchange of information with the ERP system and other adjacent systems.

INTERACTION OF WMS AND ERP.



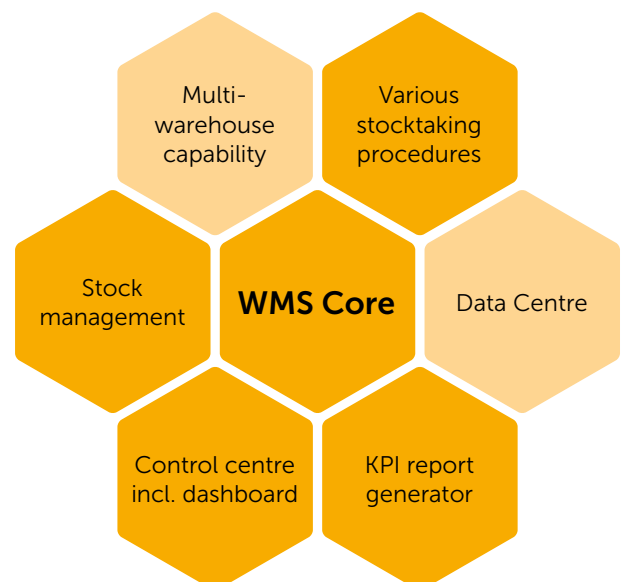
Your IT solution for warehouse management.

Know what is happening in the warehouse in real time – thanks to artificial intelligence.

ALL DATA, ALL LOCATIONS ALWAYS IN VIEW.

For a quick and easy overview of events in your warehouse, the Jungheinrich WMS offers a comprehensive information system with **KPI report generator** and **Data Centre**, which provides you with additional functions based on artificial intelligence. With the help of the **Control centre** in the Jungheinrich WMS, orders can be started and monitored at any time in addition to the **Stock and master data management**. To ensure that all relevant data is always in view, the individually configurable dashboard offers you a quick visual overview of your warehouse's important key figures.

- ▶ Different dialogue-led **Stocktaking processes** such as key date stocktaking or perpetual inventory, allow the determination of precise stock figures, thereby reducing the exertion for your employees.
- ▶ And if you would like to manage several company locations worldwide, the Jungheinrich WMS is the right choice: the **Multi-warehouse capability** allows master and profile data to be easily transferred for several locations and all warehouses to be coordinated from a central point. In addition, the WMS is available in 12 languages; the language can be changed at any time without restarting the system.



SAP® EWM by Jungheinrich.

The seamlessly integrated warehouse management solution for your SAP® environment.

UNIFORM SYSTEM LANDSCAPE FOR MAXIMUM PERFORMANCE.

If you are pursuing a purely SAP®-based IT strategy, we will accompany you as an experienced partner through the introduction of an integrated warehouse management solution. With our decades of intralogistics experience and software expertise, we offer you professional care, from planning through implementation to support. We do not just focus on a fully integrated WMS solution. As SAP® EWM integrator, we go one step further and also integrate your warehouse processes and technology, even in complex, highly automated environments.

With the Jungheinrich MFC Add-On for SAP® EWM, the tried-and-tested material flow strategies from our market-leading material flow controller will also be available in your SAP® EWM. In addition, this add-on enables you to seamlessly integrate Jungheinrich warehouse technology with standardised interfaces. The Jungheinrich MFC Add-On for SAP® EWM was developed entirely in the SAP standard to ensure maximum future-proofing for your system.

This offers a wealth of opportunities for optimising your warehouse strategies and increasing the efficiency of your warehouse – from goods receipt through storage to goods retrieval.

- ▶ Integrated solution from the intralogistics experts with SAP® experience.
- ▶ Wide range of integrated functions and business processes.
- ▶ Seamless integration of warehouse technology, e.g. stacker cranes or conveyor systems.
- ▶ Open standards allow customisation to meet every need.

SAP® INTEGRATION SCENARIOS.

We provide you with expert support for every integration variant.

	SAP® WM	SAP® WM	SAP® EWM	SAP® EWM
Administration level	SAP® ERP (ECC)	SAP® ERP (ECC)	SAP® ERP (ECC)	SAP® ERP (ECC)
Process level	SAP® WM	SAP® WM	SAP® EWM	SAP® EWM incl. MFC* and Jungheinrich Add-on
Material flow level	Jungheinrich WCS	Jungheinrich WMS incl. MFC	SAP® MFC with Jungheinrich Add-on*	
Control level	PLC	PLC	PLC	PLC
Hardware				

Jungheinrich scope of delivery *Material flow control

Error reduction during order picking with the aid of Pick-by-Light / Put-to-Light solutions.



Compact storage of goods in vertical lift and paternoster racking with direct integration into the Jungheinrich WMS.

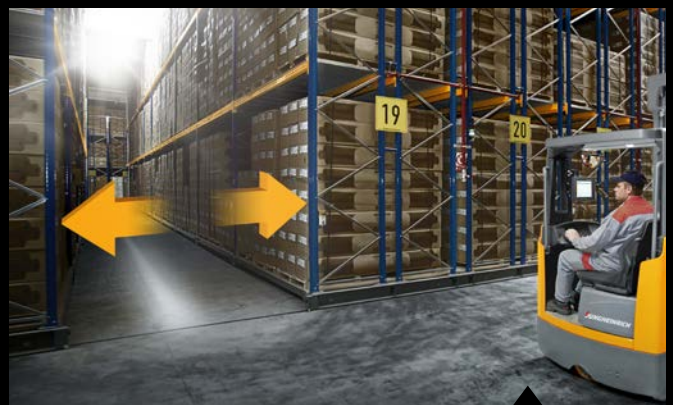
High speed and precision putaway and retrieval with Jungheinrich stacker cranes.



A range of materials conveyor systems, together with the material flow controller, for efficient goods transport.



Automate your transports within your warehouse or your production with the Jungheinrich Automated Guided Vehicle system (AGV).



Greater efficiency: with mobile racking with WMS connection, the working aisle is already opening on approach.

Customised advice and service.

We support you every step of the way,
from planning to after sales.

FIRST-CLASS SERVICES FOR SMOOTH OPERATION.

Jungheinrich systems and products are extremely reliable. Our many years of experience in working with customers from the most diverse of industries shows that investment in service and support pays off. It leads to increased productivity, reduced operating costs and maximised availability of your system. Our support employees can provide you with assistance and answer your questions 365 days a year, 24 hours a day, quickly and reliably via remote connection. The contact persons and service engineers in your immediate vicinity are also happy to help.

We offer three different models for your support. We are always available to help you with the selection of a suitable support model. You can benefit from our expertise and experience, enabling you to focus on your core business. We look after your logistics system.

JUNGHEINRICH CARE SUPPORT.

Without conclusion of a support contract, provision of support during office hours for an event fee plus hourly rate.

For customers with simple, non-critical logistics processes or their own support team.

JUNGHEINRICH BASIC SUPPORT.

Flat-rate basic support package with guaranteed response times and with support hours charged according to use.

For customers with simple to complex logistics processes requiring basic support coverage.

JUNGHEINRICH PREMIUM SUPPORT.

Premium coverage of all support services for a flat rate, regardless of duration and scope.

For customers with complex to highly complex logistics processes requiring maximum reliability and round-the-clock support with very short response times.

EXAMPLE SEQUENCE FOR THE INTEGRATION OF A JUNGHEINRICH WMS.

1. OFFER PHASE

- ▶ Analysis of your requirements and expenses in conjunction with Jungheinrich Sales.
- ▶ Preparation of a binding offer.
- ▶ Placement of order.

2. SYSTEM SPECIFICATION PHASE

- ▶ System specifications workshop: specification of the delivery and service content.
- ▶ Coordination of the system specification with all parties involved.
- ▶ Acceptance of system specification by the ordering party.

3. IMPLEMENTATION PHASE (INHOUSE)

- ▶ Modelling of your warehouse: mapping of your processes and implementation of the interface as per the system specification.
- ▶ Installation of the WMS clients on the PC provided.
- ▶ Provision of a server and remote maintenance access.
- ▶ Remote installation of the database and the WMS on the server.

4. TRAINING AND TEST PHASE

- ▶ Interfaces test and pre-commissioning of the systems at your site.
- ▶ Training of your key users by Jungheinrich.
- ▶ Final integration testing for the Jungheinrich WMS and adjacent systems, e.g. ERP, warehouse systems.
- ▶ Coordination of the go-live date.

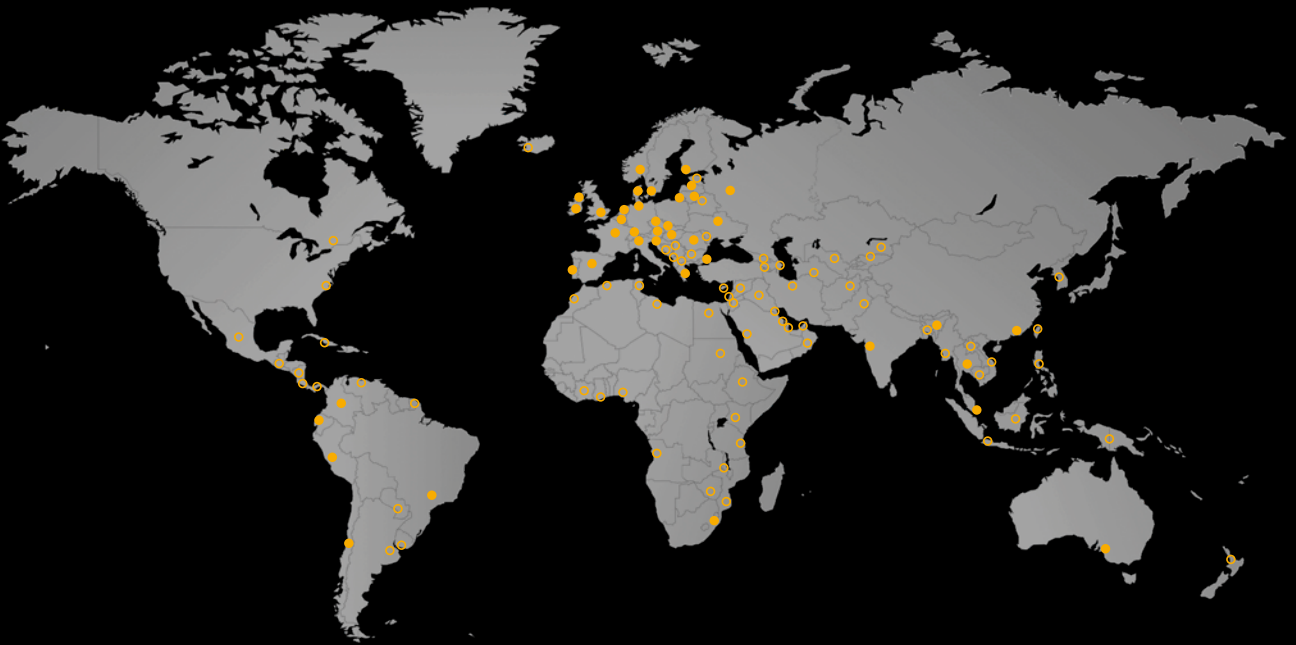
5. IMPLEMENTATION PHASE (ON SITE)

- ▶ Completion of the commissioning of the delivered systems at your site.

6. SUPPORT AND LIVE OPERATION

- ▶ Support for live operation in your warehouse.
- ▶ Remote support and handover of your system to our trained support team.
- ▶ Support services corresponding to the chosen support contract.
- ▶ Support for enquiries and extensions relating to your WMS.

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 5,500 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, automated systems and warehouse equipment 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.



AUTOMATED SYSTEMS

Based on our comprehensive process knowledge and extensive experience in a wide range of industries, we can provide you with tailor-made automated systems, ranging from semi to 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.



WAREHOUSE EQUIPMENT

From pallet racking to automatic miniload warehouses, we have the right solution for every item and warehouses of all sizes. Combined with Jungheinrich industrial trucks and IT solutions, the result is a future-proof, integrated intralogistics concept of unique quality.



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. There are rental solutions available to suit all requirements, with trucks available instantly in a wide number of variants across the globe.



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 knowledge 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 5,500 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.

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