



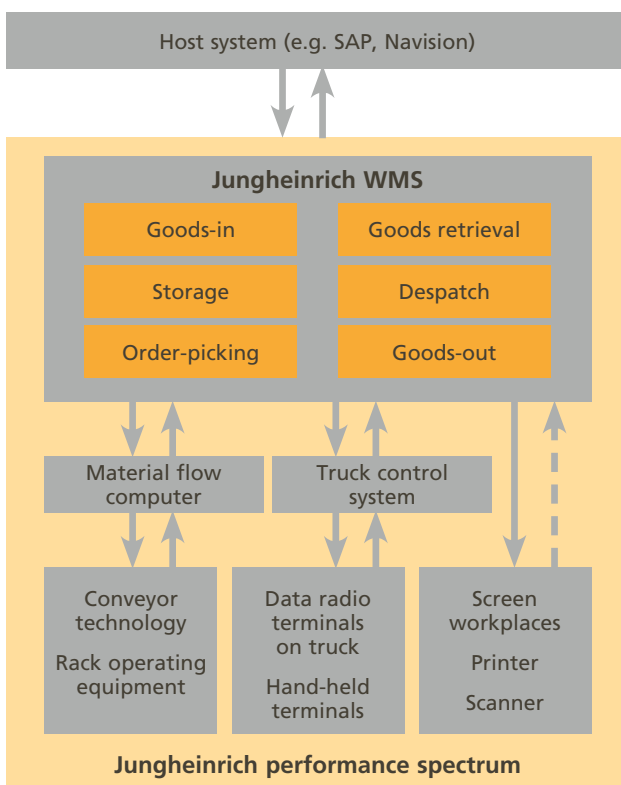
## Jungheinrich WMS Warehouse Management System.

Consolidating the flow of materials and information.

 **JUNGHEINRICH**



## Enabling you to get to grips with your warehouse



The Jungheinrich WMS allows you to control any warehouse: block/pallet warehouses, drive-through/adjustable pallet racking warehouses, modular racking systems and fully automatic systems with rack operating and materials handling equipment. All areas of the warehouse (e.g. goods-in, goods-out, buffer zones and picking areas) are managed, the entire material flow controlled and optimised.

The Jungheinrich WMS is a flexible system. It can be adapted to your intralogistics processes through a range of parameters and settings that can be adjusted even during operation.

Additional modules are available for special requirements. These can be extended, modified or even completely re-produced if required.

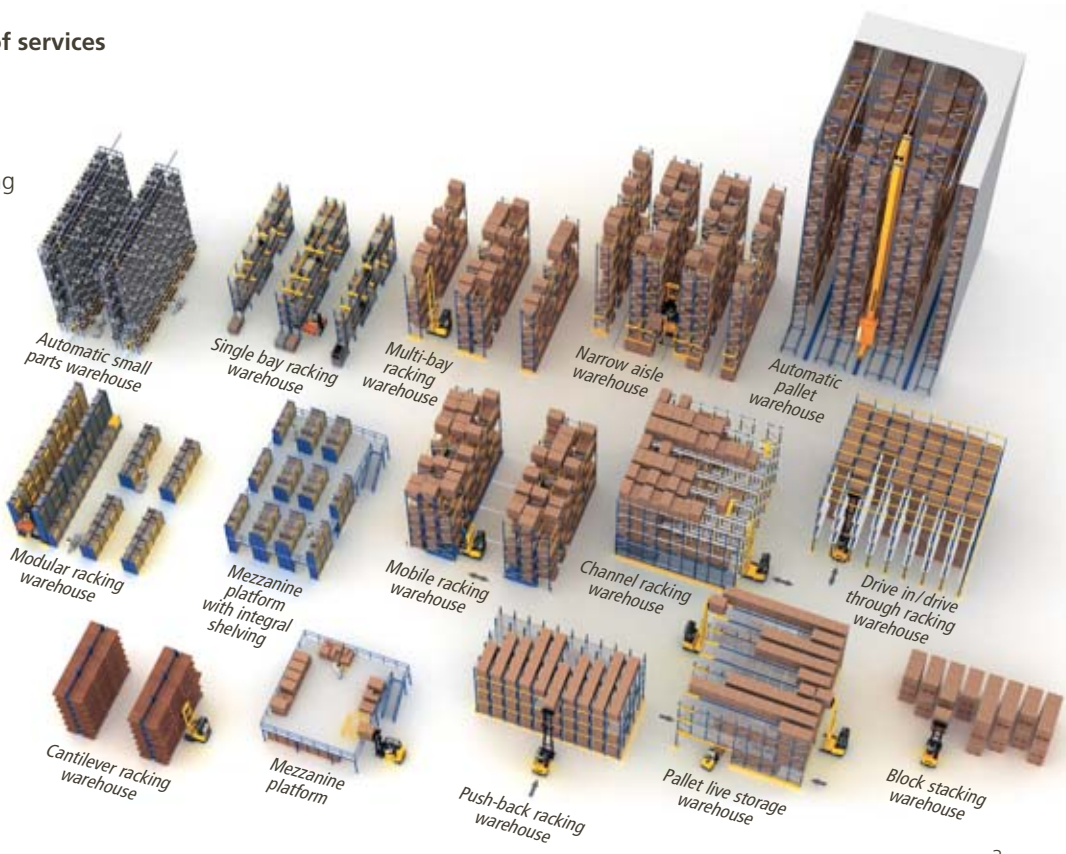
An extensive reporting system and a whole host of individually configured evaluation options ensure complete transparency. The Jungheinrich WMS can be connected to many existing system environments through standard interfaces.



# systems.

### The Jungheinrich range of services

- Consultation
- Specifications generation including interface details
- Installation, commissioning and training
- Maintenance and service





## Standard functionality.

### Warehouse modelling

Warehouse modelling enables the actual warehouse to be mapped exactly and thereby its logical functions are being made apparent.

- Definition of storage areas (bay dimensions)
- Sub-division of warehouse locations into segments
- Definition of racking rows
- Definition of aisles
- Definition of storage types (e.g. pallets, wire baskets, containers)
- Sub-division of load aids (e.g. pallets, boxes)
- Exact modelling of racking rows through graphic editor
- Definition of logistical routes
- Stacking and retrieval route optimisation with a wide range of options for dynamic specification of bay search strategies
- Definition of logistical storage areas
- Work place administration
- Master data administration:
  - Goods master data
  - Set data administration
  - Customer master data
  - User master data
  - User group administration
  - Operational data administration
  - Supplier master data

### Warehouse processes

- Warehouse operation with reports or paperless with radio data terminals
- Goods-in unplanned/planned, goods processing, quality control, blockage
- Returns procedure
- Batch administration
- Minimum durability administration
- Definition of load aids
- Automatic restocking
- Assigning stocks to load aids
- Requesting load aids for test or packing purposes
- Stacking: fixed place, manual or chaotic place allocation involving extensive, variable strategies
- Order picking and retrieval with a range of strategies
- Goods-out unplanned/planned
- Warehouse access optimisation on the basis of logical storage areas



### Special functions

- Relocation of load aids, restocking
- Relocation of various stocks, restocking
- Inventory adjustment
- Re-posting
- Re-defining load aids
- Deleting load aids
- Releasing or blocking stocks
- Running several block marks on the inventory
- Language setting
- Setting the software resource parameters (global, local)
- Setting the symbol bars
- Configuration profiles for radio data terminals
- Various print settings and forms
- Volume measurement
- Administration of package units

### Information system

- Bay-related information
- Load aid related information
- Article related information
- Minimum stock control
- Statistics

- Warehouse movement report
- Inventory report
- ABC analysis
- Inventory:
  - Permanent inventory
  - Zero crossing inventory
  - Reference date inventory
  - Random sampling inventory
  - Individual inventory
  - Load aid inventory
  - Area inventory
  - Financial year end
- Integrated report generator for various customer-specific evaluations
- Host communication:
  - Data exchange via ASCII files
  - Data exchange via database tables
- Warehouse editor and display
  - Display of individual bays
  - Display of split bays (multi-bay)
  - Display of load aid sectors
  - Inventory progression
  - Report charts



## Examples of additional modules.

### **Truck control system module**

The truck guidance system ensures that the truck fleet is utilised as consistently as possible. Unnecessary journeys and blocking off aisles are avoided. All stacking, retrieval and picking orders are assigned to the „right“ truck via radio data transmission. Orders are issued on the basis of various criteria.

The control panel and resource manager offer a complete overview of the entire system at all times, as well as the usage of personnel, trucks and storage areas. This ensures that potential bottlenecks can be detected at an early stage and avoided with appropriate planning.

### **Packing drum pre-calculation module**

Pre-calculation of packing drums (e.g. packing boxes) required for order picking based on the volume and weight of the articles and drums.

### **Route administration module**

By assigning route numbers for one or more customers, picking and retrieval orders can be compiled accordingly. To optimise lorry loading, a route order can also be assigned.

With the aid of loading lists all goods are checked again before the lorry is loaded. If the details match the actual goods that have been retrieved, the status can be set to „completed“ and the goods delivered.

### **Hazardous material warehouse module**

This module administers warehouse areas with articles graded as hazardous due to specific properties. Special requirements apply to these articles, e.g. they should only be stored in certain areas or in certain combinations. This satisfies guidelines according to ADR and VCI.



#### **Material flow computer module**

To control automatic storage systems with rack operating equipment (including curve operating equipment and multiple load handlers), materials handling equipment (vertical and horizontal conveyors, trolleys, sorting systems), double and multi-deck storage areas etc. In addition the entire system can be displayed to keep the system status in view at all times.

#### **Client enabling module**

Module for logistic suppliers and hauliers who often handle warehousing and logistics services for several customers (clients). The Jungheinrich WMS enables a number of clients to be managed.

#### **Warehouse accounting module**

Accounting for services and work performed for one or more clients. The services include goods-in, order picking and the storage time or the actual storage volume.

The rates negotiated by the logistics supplier with his clients are stored in the system and serve as the basis for further calculation. Even work that is not directly linked to warehousing (e.g. repackaging, labelling and washing) can be specified and charged for.

#### **Superior system interface module**

If required the standard interface can be extended or adapted to suit customer requirements (e.g. for additional article naming). A SAP certified interface is used for connection to SAP systems.



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Jungheinrich trucks  
conform to the European  
Safety Requirements.

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