



KUGLER CONSULTING

Product information KC-WMS Solutions for Warehouse Management

Our warehouse and material flow management system provides the following functions:

- Logistics control center and controlling für comprehensive and on-time order and material flow monitoring and control
- Dynamic storage location management including strategies for optimisation of storage, retrieval and picking
- Fully automated warehouse control with automatic control of stacker cranes and conveying systems
- Order-driven optimisation of the material flow from goods receipt to goods dispatch
- Stacker control system with radio data transmission for deployment control and optimisation of resources (vehicles/stackers and persons)
- Control of picking, packaging and shipment for optimisation of cycle time and costs until goods dispatch
- Connections of storage lifts and their integration in the (existing) warehouse, e.g. as additional storage area
- Toppystem Pick-by-Voice
Data transmission via customer interface to topsystem and the voice-devices (Voxter) for distribution and processing of tickets and picking lists
- Pick Manager
Enhanced functionality for processing and design of processes for picking, e.g. by storage location management, integration of stacker control system, logistics control center as superordinate functionality or other specific requirements

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KC-WMS offers flexible integration into the organisation, software environment and E-Business structure of the customer. KC-WMS is available on client-server-systems (Windows server, Windows client, Oracle) and does not only comprise qualified online interfaces to well-known software systems (like SAP, Baan, B PICS, JDE, JBA, etc.) but also to radio data transmission systems and subordinate controls – via material flow system or directly - for fully automated warehouse and conveying systems.

High quality, individuality and efficiency, based on the special logistics competencies of KuglerConsulting, create significant benefits – full transparency in the dynamics logistics process, traceability, high precision, high process speed, reduction of working time, cycle time and capital commitment, highest availability, increased delivery service level, very good return on invest – and therefore competitive advantage, security and autonomy for the customer.

Basic functions

Dynamic storage management and stock management in the shelf warehouse

Storage and retrieval functions

- Optimised storage (storage zone, location dimension, ABC, location priority)
- Optimised retrieval (FIFO, preference of remaining quantities)
- Specific relocation

Information functions

- Article-storage location
- Storage occupancy
- Article stock list
- Article-storage location-list
- Storage location-article-list
- Stock movement log

Master data management

- Warehouse master data management
- Storage location master data management
- Article master data management
- Loading device management
- Transaction key management
- System data management

Enhanced functions

- Alternative warehouse management, e.g.
 - block warehouse management
 - fixed place and fixed bin warehouse management
- Enhanced functions, e.g.
 - Multi-language support
 - Multi-client capability
 - Batch tracking
 - Best-before date
 - Cross docking
 - Yard management
 - Vendor managed inventory

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- Value added services
- ABC Plus, and many more
- Goods receipt
- Goods dispatch/shipping
- Logistics control centre and controlling with Task Resource Management
- Forklift control system (with radio data transmission)
- Further storage functions
- Further dispatch and picking functions
- Multi-step picking
 - Ccle-related
 - stepwise
 - target-oriented (workplaces)
- further relocation functions
- Inventory functions
 - Article and storage bin inventory
 - Loading device inventory
 - Sample inventory
 - Zero-crossing
 - Inventory reconciliation
- Special booking functions
 - Quality assurance lock/release
 - Customss control lock/release
- Management of packages or completed picks
- Picking
- Empties management
- Kanban
 - Container control (with barcode and/or RFID)
 - Management of several container sizes
 - Specific settings per article
 - Dependency of usage
 - including automatic replenishment control
- further informative functions
- Analysis functions and evaluationd
 - ABC evaluation (incl. Kanban)
- Mobile functions
 - All functions from goods receipt to goods dispatch / shipment are also available as mobile functions for manual or forklift terminals
- Automation functions. E.g. radio communication
 - Radio frequency identification (RFID)
 - VoIP (also with RFID)
 - Stacker crane control communication
 - Conveying system control communication respectively communication with MFS or subordinate control
 - Weighing

Further enhanced functions

- **Interfaces**
 - to ERP systems
 - to subordinate controls for conveying technology, stacker cranes, sorters, ATV systems – interface overview to other systems within the supply chain: collaborative business
- **Connection to SAP**

KC-WMS can be seen as a component subordinate to SAP. For goods movements SAP-specific interfaces are used:

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KC-WMS supports several options for inventory, like key date inventory, permanent inventory, near zero transition inventory, inventory audits, empty space audits. The system offers options for analyses of electronic parts. Completeness checks of storage as well as checks if all storages have been processed are provided. KC-WMS stores known SAP material numbers and returns information to SAP using the same structure and provided interfaces.

The modules PickManager of our warehouse and material flow management system provides the following functions:

- Pick-Manager for Pick-by-Voice
Connection to the Pick-by-Voice solution of our partner topsystem including optimisation
- Pick-Manager for Pick-by-Vision
Connection to e.g. data goggled with augmented reality (AR)
- Pick-Manager for Pick-by-Light
Connection to Pick-by-Light system including optimisation
- Pick-Manager for storage lift
Connection to storage lifts of our partners Kardex, Intertex, Hänel, Schäfer-Logimat and others including optimisation
- Pick-Manager for manual and forklift terminals
Connection to mobile radio data transmission terminals including optimisation, e.g. integration of forklift control systems
- Pick-Manager for Wearables
Connection to e.g. functional wrist band

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