

Warehouse Management System (WMS)

The **ZUGSEIL Warehouse Management System (WMS)** is a service bundle that helps to control and manage the daily operations of a warehouse. It provides real-time visibility into the inventory, automates many manual processes, and helps to optimize the storage and retrieval of goods in a warehouse. Beyond that it delivers financial transparency of inventory accounts.

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Core functionality

Inventory management

Our [Inventory Management](#) delivers essential functionality to fulfillment and bookkeeping. To achieve this, it allows keeping track of the inventory levels, stock movements, stock locations and stock valuation in real-time. It also integrates with lifecycle management functionality for managing products with batch or serial numbers. Also the handling of expiration dates is supported, which is crucial for industries like pharmaceuticals and food.

Fulfillment

Our fulfillment support optimizes available stock to fulfill the demand of clients optimally to the situation the customer is in through unique [fulfillment inventory allocation strategies](#).

1. Efficient order picking functionality is critical for fulfilling customer orders accurately and quickly. A WMS should optimize picking routes, provide pick lists, and support various picking strategies (batch picking, wave picking, etc.) to improve efficiency.
2. The ability to manage stock rotation based on methods such as First-In-First-Out (FIFO), Last-In-First-Out (LIFO), or First-Expired-First-Out (FEFO) is crucial for industries dealing with perishable or time-sensitive goods.
3. The ability to perform customization / build-to-order or assemble-to-order processes into the warehouse fulfillment chain
4. **Returns management** - An effective WMS should include features for managing product returns efficiently. This involves processing returned items, updating inventory records, and ensuring that returned products can be reintegrated into available stock if appropriate.

Lifecycle tracking through barcode scanning and RFID integration

- For businesses dealing with products that have lot or serial numbers (e.g., pharmaceuticals, electronics), the WMS should support tracking these numbers to ensure traceability and compliance with regulatory requirements.
- Barcode scanning and Radio-Frequency Identification (RFID) integration streamline the tracking and management of inventory items. These technologies enhance accuracy, speed up processes, and reduce errors associated with manual data entry.

Inventory planning & disposition

- The WMS should have the capability to generate automated alerts and notifications for events such as low inventory levels, stockouts, or irregularities in the supply chain. This enables timely response to potential issues.
- A WMS with demand forecasting capabilities helps businesses predict future inventory needs based on historical data and trends. This supports proactive decision-making in terms of replenishing stock to meet customer demand.

Performance Analytics and Reporting

Robust reporting and analytics tools help businesses gain insights into inventory performance. Key metrics such as turnover rates, order accuracy, and fill rates can be monitored to optimize inventory management strategies.

In short, our Warehouse Management System helps organizations to improve their warehouse operations by providing real-time visibility, automating manual processes, and optimizing the storage and retrieval of goods in the warehouse.

Warehouse outsourcing

The [warehouse outsourcing](#) feature allows to entire outsource a warehouse but still stay under full real time control as if it were operated by own staff. The creation requires two connected digitals, one which is providing the outsourced warehouse service and one which is embedding the outsourced warehouse. This can be defined through the [warehouse administration app](#). The real-time synchronization is maintained through the [B-Op Connectors](#).

Related articles

- [Inventory Management Functionality](#)
- [ZUGSEIL SCALE](#)