

# Warehouse control system

Gain integrated control of all your components



**Körber's warehouse control system (WCS) provides an optimization layer across your entire business, rather than optimizing automation devices in the traditional siloed way via disparate software applications. With a constraint-based algorithm, our WCS lets you optimize all your equipment (and your people) to keep everything running, even if one component fails.**

#### **Managing disparate systems is a major challenge**

As your business grows, you acquire new automation devices, from cranes to conveyors, automatic storage and retrieval systems (ASRS), pallet systems, and robots. Each additional piece of hardware has its own software, which can be integrated into your warehouse management system (WMS) to optimize that individual piece of equipment.

#### **Key benefits**



##### **Reduce delivery times**

The WCS increases efficiencies across your warehouse, enabling you to reduce delivery times and satisfy customers' expectations.



##### **Avoid bottlenecks**

If there's a problem in your warehouse, such as a traffic jam or operatives missing from workstations, the WCS's mapping functionality will highlight the issue.



##### **Manage multiple areas**

As well as controlling the material flow in your warehouse, the WCS can also be used to manage your stock and inventory systems.



##### **Minimize costs**

Following the successful implementation of your WCS, your IT people can scale your warehouse, without any additional costs from Körber.



With this siloed approach to optimization, if a key component fails, there's a risk that your whole operation could come to a standstill. To remain competitive, you must maximize capacity and throughput and improve productivity. But how do you ensure continuous operations if one or more of your automation devices is out of action?

## **Gain integrated control of all components**

With Körber's warehouse control system you can integrate and control all components within your warehouse using one overarching system. Think of the WCS as a conduit between your WMS and all your automation equipment.

When you have orders to fulfill, your WMS instructs your material handling equipment and your workforce. These instructions, (called "transport orders") include commands such as, "Go to location 1", "Pick product A", "Take it to location 2", and so forth. The transport order is sent from the WMS to the WCS, which identifies the most efficient way to fulfill the task, while factoring in any constraints. If an ASRS is out of action due to maintenance, for instance, the WCS uses a constraint-based algorithm to work around this issue and keep the warehouse running. The WCS will also direct your warehouse workers and your robots in a way that's fully optimized for increased productivity.

Our WCS has the unique ability to run offline in emulation mode. In other words, it can be used to simulate and compare warehouse scenarios in a safe environment. For example, you could simulate a new robot in various parts of your warehouse, to identify where it would generate the greatest efficiency gains.

## **Warehouse control system advantages**

### **Trusted solutions**

For more than two decades, our solutions have been trusted by leading logistics professionals.

Körber's database-driven WCS will enable your business to scale up to an unlimited number of transactions. Plus, the system uses Java OpenStreetMap to route pallets through a navigation system. With this innovative mapping tool, operatives can visualize the warehouse layout and track the material flow of each pallet (and each barcode) running through the system.

**“Many of our customers have hundreds of employees using our warehouse control solution, and their entire material flow is efficiently managed by our system.”**

**Ralf Leuthner**  
Körber

### **The Körber difference**

As well as consolidating your technology stack, our warehouse control system is the only solution that incorporates a database. So your warehouse managers can analyze your material flow and make predictions to optimize business processes. Ultimately, this will generate greater business efficiencies and dramatically improve productivity throughout your whole warehouse.

**I love working with customers to help them gain complete control of all their warehouse systems and components. When everything is running seamlessly – with a much greater throughput – that makes me very happy.**

**Ralf Leuthner**  
Körber

### **Truly agnostic**

Unlike other vendors, our WCS is manufacturer and equipment agnostic.



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