

Warehouse control system

Gain centralized control of your automation equipment to optimize your material flow

Körber's warehouse control system (WCS) allows you to manage and optimize your material flow. It provides a central point of control for managing your entire portfolio of material handling equipment (MHE), rather than individually controlling automation devices.

Managing disparate systems is a major challenge
Modern warehouses and distribution centers with automatic storage and conveyor technology systems typically implement MHE from multiple vendors.

They also find that automation technology requires a substantial investment, which organizations are willing to make in order to increase throughput and maximize the capacity of warehouse operations.

However, a multi-vendor MHE infrastructure makes it virtually impossible to run the costly automation equipment as a unified system, much less optimize it.

Once deployed, operations teams often find that tracing and remediating malfunctions across MHE from multiple vendors can be tedious and time-consuming, and that it takes manual intervention to quickly adjust material routes in case of malfunctions or receipt changes.

They also lack end-to-end visibility of the automation chain, which makes it hard to trace materials and items if needed.



Key benefits

Truly vendor-agnostic

Unlike other solutions, our WCS manages MHE equipment from all major vendors.

Supports all automation solutions

Seamless integration of virtually all automation technologies, including shuttle systems, high-bay warehouses, automatic storage and retrieval systems (ASRS) and many others.

Seamless vertical integration

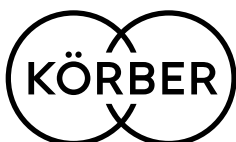
Integration of processes from the WMS to the logic controller in the MHE ensures optimum control of the automation equipment.

Highly scalable solution

The WCS scales to accommodate increasing transaction volumes, at no additional cost.

End-to-end visibility of the entire material flow

Intuitive graphical dashboards present system data and allow for continual optimization of operations.



WCS integrates control of your warehouse automation

Körber's warehouse control system is vendor-agnostic and supports all material handling technologies. It creates a single point of communication amongst MHE and WMS, and provides centralized control and management. It also ensures continued material flow if individual devices fail. Capabilities include:

- Management of all common vendors and types of conveyor and storage technology, such as shuttle systems, high-bay warehouses, automatic storage and retrieval systems (ASRS), and many others.
- End-to-end visibility of the automation chain, which enables tracking of the material flow and barcodes through the system.
- Support for all common workflows: basic automation, hybrid automation-workforce configurations, and complex fully-automated operations.
- Constraint-based algorithms, which enable optimization strategies such as dynamically selecting the optimal transport route or interleaving, and adjusting material routing in case of equipment failures.
- Offline emulation mode, to simulate automation scenarios in a non-production environment.
- Database-driven architecture, which enables high scalability to support exponential growth of transactions.
- Intuitive, graphical dashboards that visualize data and provide actionable insights to continuously improve material flow and equipment ROI.

The Körber difference

Körber's warehouse control solution has been available for decades – almost as long as automation has been employed in warehouses and distribution centers.

We have continuously evolved our WCS with unique functionality, to create a vendor-agnostic, best-of-breed software solution. Our experience extends beyond the software and includes implementation services to customize the solution to your environment. Our team will partner with your operators to help you unify the management of your automation systems and maximize its ROI.

“Many of our customers use our warehouse control system in highly complex operations with millions of communication telegrams per day. Our system efficiently manages their entire material flow and allows them to fully benefit from their investment.”

Ralf Leuthner
Körber

