



Warehouse Execution System (WES)

Dynamic task management and resource orchestration to achieve peak performance

A warehouse execution system (WES) is an advanced software solution designed to optimise operations within automated warehouses. It ensures seamless task and resource synchronisation, aligning material handling equipment (MHE), robotics and employee workflows to deliver operational continuity and enhance overall throughput.

Mecalux offers advanced WES capabilities natively integrated into Easy WMS — its industry-

leading warehouse management system — providing a unified software platform that enables the perfect orchestration of automated facilities. In today's fast-evolving logistics landscape, increased automation and omnichannel commerce are reshaping supply chains. Against this backdrop, WES software has become an essential tool for driving efficiency. It empowers warehouses to reach superior performance amid rising operational complexity and fluctuating demands.

Benefits

• Intelligent orchestration

Mecalux's warehouse execution system provides comprehensive control over warehouse operations and complex intralogistics environments. It maximises resource efficiency and ensures smooth global integration by fostering synergies between humans and machines, from MHE to robotics.

• Real-time adaptability

Task prioritisation enables dynamic workflow readjustments to manage critical operations. It optimises order fulfilment, allowing warehouses

to swiftly adapt to demand fluctuations and emerging priorities without compromising productivity or availability.

• Enhanced throughput

By optimising resource allocation, task sequencing and workflow synchronisation, the warehouse execution software drives operational efficiency and improves overall warehouse performance.

• Scalable automation

Flexibility in integrating new automation and robotic solutions supports the adoption of modular and progressive automation processes. This adaptability enables businesses to grow and evolve.



Software solution designed for superior performance in automated warehouses



Workflows and resource allocation

Optimised task distribution for uninterrupted operations

Mecalux's WES streamlines workflows and resource assignments through advanced task allocation capabilities, considering critical factors such as priority and availability. It guarantees the right resources are deployed to the right tasks at the right time, improving overall workflow fluidity.

Task management

Smart task prioritisation with adaptive responsiveness

The software orchestrates task execution by introducing advanced prioritisation capabilities that enhance operational effectiveness. If unexpected requirements arise, the system reprioritises tasks proactively, reorganising resource allocation and pending tasks to address shifting demands and operational constraints.

Picking optimisation

Intelligent picking orchestration for seamless fulfilment

Easy WES boosts order fulfilment by streamlining picking operations across automated, semi-automated and manual processes. It leverages real-time evaluation of ongoing activities and operational demands to align picking decision-making with task prioritisation and resource allocation. This approach maximises accuracy and speed in order fulfilment while minimising errors and delays.

Advanced data analytics

Actionable data intelligence for real-time visibility

The analytics capability features a comprehensive set of reporting tools and interactive dashboards with configurable alerts. It delivers strategic insights that empower companies to make data-driven decisions, maximising resource utilisation and increasing productivity.

Why choose Mecalux Software Solutions?



The company has **60+ years** of experience in warehousing solutions and a presence in over 70 countries.



More than **500 engineers** are exclusively dedicated to the development of logistics and supply chain software.



Over **1,200 facilities** in 36 countries are managed by Mecalux software solutions.



Software is **continuously developed** and updated, thanks to major investments in R&D.



Technical support is available in multiple languages 24 hours, 365 days a year.

