



# EPG ONE™

# WAREHOUSE CONTROL SYSTEM (WCS)

The complete solution to managing your automatic logistics systems

## EPG ONE™ Warehouse Control System

- ✓ Flexible link to third-party WMS solutions and to the LFS from EPG
- ✓ All types of warehouse technology can be controlled regardless of the supplier
- ✓ All systems also available in the cloud (EPX)
- ✓ For different levels of automation – from simple to highly complex
- ✓ Easy configuration of the material flow through parameterisation
- ✓ Integrated 2D and 3D visualisation

## The EPG material flow computer

The EPG ONE™ Warehouse Control System (WCS) is a manufacturer-independent and future-proof software system for controlling automatic logistics systems.

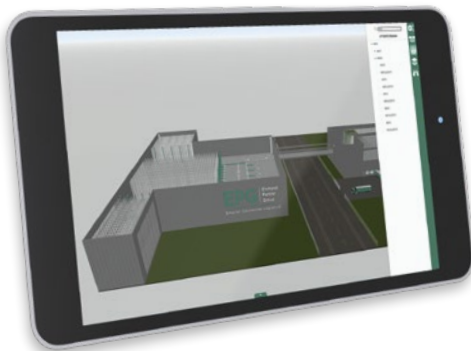
With over 30 years of experience in warehouse automation, we can offer a complete solution that manages, controls and coordinates all aspects of an automatic material flow. WCS is integrated directly in the LFS of EPG, but can also be run without LFS with any material flow technology.

As an on-premise or cloud solution, WCS provides full flexibility and the integrated visualisation offers a system overview and real-time display of events as well as a material flow analysis by means of 3D or 2D visualisation and emulation.



## Integrated 3D visualisation for a view down to the detail level

WCS has an integrated 3D visualisation including a zoom function for a detailed view into the warehouse. We use the visualisation software to implement a material flow control that shows the entire material flow and the shelving systems in two or three dimensions – as wanted or needed. You can immediately see whether all system parts are working correctly and will immediately receive a notification if this should not be the case. This allows for fast and flexible troubleshooting at all times. The visualisation is available on each LFS client and can also be called up on any current browser.



## Virtual commissioning – with WCS

Are you planning a larger automation project? Or maybe even a new-built logistics centre? With virtual commissioning, we offer a solution for minimum risk and maximum efficiency: We use WCS to first generate a 3D model of the planned warehouse technology showing the real system in all details. The emulation is then carried out at process level – depending on the requirements – but can also be broken down into detail at the control level. This allows us to guarantee a perfect start for your actual operation and exclude potential risks, such as

loss of production or system downtimes, from the outset. Do you want to simulate an entire working day? We also offer automatic tools for comprehensive test runs to fully utilise the optimisation potential before the go-live.

**In combination with our LFS Warehouse Management System, you receive a system for logistics and material flow from a single source. The open interface, however, can also be used to link to any other WMS/host system.**

## Standard functions of WCS

### Central functions

- ✓ Navigation of load units
- ✓ Control of the automatic warehouse technology
- ✓ Configuration of the individual automatic systems
- ✓ Order/sequence handling
- ✓ Transport monitoring
- ✓ Status of the automatic systems
- ✓ Scanner statistics
- ✓ Error handling

### Visualisation

- ✓ Integrated for the entire system (2D/3D model)
- ✓ Multi-level handling
- ✓ Overview of all decision-making points
- ✓ Graphical tracking of the active load units
- ✓ Error handling – link to operative control systems

### Emulation

- ✓ Verification of the material flow during start-up (validation of the configuration)
- ✓ Display in 2D/3D
- ✓ Manual generation of errors
- ✓ Scenario Generator & Player – definition and repetition of test scenarios