BRING YOUR PRODUCTION IN PERFECT FLOW WITH OUR SOFTWARE SOLUTIONS FOR MES AND WMS

The food and beverage industry is challenged on several levels today. Guaranteeing food safety seems to be the most important one, but small margins, changes in stock and non-standard orders are also putting food manufacturers under pressure.

To handle all of these challenges and create business value at the same time, automated systems are needed. Thanks to software, food manufacturers can keep track of their products, ingredients, machines, people and more throughout the entire production process – to generate perfect flow and maximum efficiency production line.

The combination of the WMS and MES solution of our Germanedge product provider Objective means you can fully trace your flow and use of goods: from receiving the raw materials, through the production to storage stages and end product delivery. Your logistics and production processes align seamlessly and ensure fast and correct execution. This means the right products are brought to the right production line at the right time. The end products also move efficiently through the warehouse to their final destination. Together, these components form the Objective suite, an all-encompassing tool to operationally manage production and logistics in the food and beverage industry: it is the ultimate step in striving for operational excellence.

OBJECTIVE MES FOR THE FOOD & BEVERAGE INDUSTRY

Our MES solution streamlines your production processes and goods flows for the food and beverage industry, right from receiving raw materials and components to delivering the end products. Objective MES consists of functional modules that can be implemented on a scalable basis and according to your specific needs.

The basic production management modules provide every function needed to control your production operations. This comprises:

→ Product Definition

→ Scheduling and Execution

→ Resource Management

→ Data Collection and Analysis

Our MES solution helps you to use your machines and production devices more efficiently, thereby helping you take advantage of quantifiable advantages:

→ Deliver finished products with high quality and consistency with our recipe management

→ Reduce the amount of waste from surplus through the first-expired, first-out principle and save costs on ingredients

→ Get a real-time overview of your production progress and manage your schedule using the graphical plan board

→ Quickly find the cause when there's a problem or complaint with a finished product in the event of a recall

→ Lower operational expenses

→ Continuous improvement through automatic management of your machine settings

Objective MES provides transparent vertical integration with the upper level operation systems and the lower level process control and automation systems. Our software offers standard interfaces for numerous ERP systems. Furthermore, we provide close integration with LIMS in environments where products may only be released once they have undergone in-depth quality controls. The software also opens up shop floor automation systems. This applies to both the underlying SCADA systems as well as the machines and IIoT devices that are controlled via standardised industrial protocols.

The configuration and runtime data are stored in a relational database, typically an SQL server or Oracle database. Optionally, a separate archive database can be used to store historical data, evaluate it and generate reports. The application server has a central function: besides the handling of all business logic, it provides the interface to the database, both for configuration and runtime data as well as the interface to other business levels. Depending on the required features, such as planning components, other services can be easily plugged into the central application server.

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OBJECTIVE WMS FOR THE FOOD & BEVERAGE INDUSTRY

Objective WMS (Warehouse Management System) streamlines your food and beverage logistics processes and flow of goods in your warehouse and possibly even in your production environment – from receiving the goods or raw materials, to picking, VAL, kitting or repacking to shipment.

The basic Warehouse Management module provides optimal control over your daily operations:
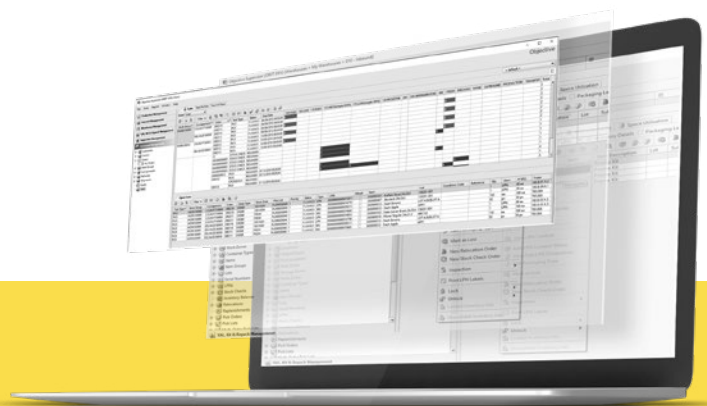
→   Warehouse-Modelling

→   Order Management and Scheduling

→   Task Management

→   Inventory Management

Objective WMS enables you to use your people, machines and production devices more efficiently, thereby helping you realise quantifiable advantages:

→   Track and trace all transactions and movements from the receipt of goods to the dispatch of finished products

→   Keep track of your inventory levels and have your goods delivered at the right time to the production lines

→   Process higher volumes with the same amount of people and resources

→   High degree of accuracy and punctual deliveries

→   Limit inventory levels

→   Lower operational expenses

Objective WMS aligns your logistics processes from gate to gate and provides transparent vertical integration with the upper level operation systems and the lower level automation systems and infrastructure. Our software provides standard interfaces for numerous ERP systems, and connections to internally developed administration systems are possible. The interaction between the ERP and WMS occurs at various times throughout the logistics process. This ensures the ERP can obtain an overarching view of the real-time situation in the warehouse as quickly as possible and connects the correct administrative actions to them, such as a MRP run.

Objective WMS uses its Warehouse Control Systems Interfaces to provide a link to and from a wide variety of devices in the warehouse. This also comprises data capturing equipment such as touchscreens, Voice-Picking, RF and RFID terminals. The system also uses standardised industrial protocols to drive storage systems such as cranes, lifts, conveyors, mini loads, pallet robots, pick-to-light and put-to-light installations.

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