

Create continuous improvement!

# TURN CHALLENGES INTO OPPORTUNITIES WITH OUR “OBJECTIVE MES” SOLUTION

Manufacturing companies face countless challenges every day: hard-to-meet customer requirements, price pressure created by competition, strict legislation, rising commodity prices and pressure to produce ever faster. Your business has to meet these expectations in order to remain profitable and future ready.

But these challenges are also hidden opportunities. They are opportunities to become and remain more successful than other companies. You have to keep improving your business’ core elements – your production is where you can make the difference. Creating a level of manufacturing excellence, will enable you to have a maximum efficient production flow in future as well.

The MES solution of our product provider Objective streamlines your production processes – from receiving raw materials and components to delivering the end products.

## Manufacturing excellence with a scalable MES architecture

Based on the ISA95 standard, “Objective MES” consists of different functional modules that can be implemented scalably. The basic modules offer you everything you need to steer your production operations:

- Product definition
- Resource management
- Scheduling and Execution
- Data Collection and analysis

In addition, you have the option to integrate additional modules to meet other requirements and needs:

- Material Management
- Quality Management
- Planning and Labour Management
- Energy Management

## Efficiency & consistency throughout the whole production process

“Objective MES” works to optimise your work situation in various ways: each operator has a specific log-in based on his rights and skills. In this way, it is also possible to record the time spent on a production order. The operators are given electronic instructions to ensure they carry out tasks correctly.



Our software ensures that the relevant information is given to the right operator at the right time. The automatically or manually registered data is collected in real-time in a central database, so you avoid collecting isolated, insignificant information. The systems show you the production status at any time and use that information to create an optimal schedule and efficiency rating. The functions of SPC alarm and reporting give you better control over your production processes. In addition, you can also call up quality details during production, follow up on specifications and give the operators instructions on how to improve quality.

The MES software guarantees full traceability of your material flows and consumption: from receiving the raw materials, through the production and storage stages and end product delivery. Integration with Objective WMS (Warehouse Management System) gives you full control over managing both your inventory and your warehouse. The energy management feature offers you an accurate calculation of your energy expenses.


With “Objective MES”, you will be able to monitor your production line performance, machine status, operator activities and use it immediately in real time. Thanks to different reporting and analysis options you can benchmark your performance in relation to reference figures anytime.


## Link between the boardroom and the shop floor


An MES can only realise its full potential when seamlessly integrated with every other component of your automation and IT Infrastructure. “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 a close integration with LIMS in environments where products may only be released once they have undergone in-depth quality controls. “Objective MES” 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 necessary functionalities, such as planning components, other services can be easily plugged into the central application server.

## THE ADVANTAGES OF “OBJECTIVE MES” AT A GLANCE


 Latest architecture technology – on premises or cloud ready

 Providing standard interfaces for numerous ERP systems

 Transparent vertical integration with the upper-level operation systems, the lower-level process control and automation systems

 ROI of no longer than 1.5 years

 Effective reports and analysis

 Automatically or manually registered data in a central database

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