



Use Case

Minimize manual worksteps



Reduce manual workload and improve efficiency with RIB MES

1. Challenge

A prefab plant is looking to minimize manual work steps and improve efficiency in their production process. The plant decides to implement several technologies to achieve this goal, including MES Smart Laser, CHEKKER, and smart station technology such as touch screens that provide work stations with necessary information.

2. Implementation

The plant works with RIB, a company that provides intelligent software solutions for prefabrication and modular construction, to implement these technologies. RIB MES is used as the on-site server to manage the prefab production, offering a simple and efficient solution for production planning and guaranteeing full utilization of the prefabrication plant.

Smart Stations are set up throughout the plant to deliver necessary information to employees when they need it, keeping them up-to-date on a project's completion without the need for paper. MES Smart Laser technology is used to improve positioning accuracy and reduce the need for reworks by communicating directly with the RIB MES and projecting plans directly onto the production surface.

3. Technology Details:

The technologies implemented in this use case provide several benefits to the prefab plant:

MES Visuals

This technology uses a high-level projector to display the entire plan on the pallet. Workers can immediately see where shutterings and built-in parts need to be placed. The projector guides workers through work steps and automatically controls whether parts are placed correctly.

RIB MES

Our Master computer offers a simple and efficient solution for production planning, guaranteeing full utilization of your prefabrication plant. Calculating ideal pallet nesting across projects, it allows for a more efficient production, optimizing production times and resource consumption and laying the foundation of a lean prefab plant.

Smart Station Technology

Touch screens and other smart station technologies provide work stations with necessary information in real-time, reducing the need for paper and improving efficiency. This allows employees to quickly access the information they need to complete their tasks, reducing delays and improving productivity.



4. Benefits of a Smart Factory

Compared to older modes of production, a smart factory offers several advantages:

Increased Efficiency

By replacing outdated paper prints with modern hardware that displays information in real-time, a smart factory can reduce mistakes, misreads, and errors. This results in increased efficiency and productivity.

Improved Quality Control

A smart factory can implement automated quality control measures that ensure all elements meet required standards. This reduces errors and improves product quality.

Optimized Resource Consumption

By implementing smart planning solutions that optimize resource consumption along the entire prefab supply chain, a smart factory can save money and resources.

5. Outcome

The implementation of these technologies results in a more efficient production process, with optimized production times and resource consumption. The use of smart station technology and MES Smart Laser reduces the need for manual work steps and improves accuracy, while the iTWO MES system provides a centralized solution for managing the entire production process. Overall, the plant is able to increase productivity and reduce costs through the use of these technologies.



**Start your investment now,
get in touch with our experts!**

[CONTACT US →](#)