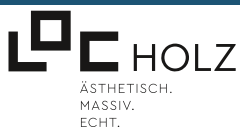


Success Story

MES SYSTEM FOR UPPER AUSTRIAS FIRST CLT PLANT



Client

LOC Holz GmbH
Technologiestraße 11
4341 Arbing
Austria



Dietmar Ruml
Operations management | COO – LOC Holz Arbing

„The ABF project team brings a lot of experience in the implementation of MES projects, which was a great benefit for us. The partnership approach is in line with our corporate values, and we look forward to further cooperation.“



INITIAL SITUATION

- ▶ LOC Holz has built a new cross laminated timber (CLT) plant in Arbing. ABF has to implement and commission a modern production control system for this purpose.



CHALLENGE

- ▶ The green field approach placed high demands on the flexibility of the ABF team and the functions of the developed software.



SOLUTION

- ▶ Realisation of the customised solution based on the **OneBase®** MES platform. This event-based system platform with control integration via ABF standard connectors has been used in over 100 projects for 15 years.



BENEFIT

- ▶ Optimised planning and material tracking of lamella packages, master panels and components in the entire CLT production by means of a control system with a supplier-specific connection of the machines.



MES SYSTEM FOR UPPER AUSTRIAS FIRST CLT PLANT

Wood is a regional hero, because it grows back every year in Austrian forests. This building material is available in sufficient quantities and additionally serves as a carbon store through the power of photosynthesis. LOC Holz GmbH is a company founded in 2021 with the aim of building a state-of-the-art cross laminated timber (CLT) plant in Upper Austria. As a specialist for industrial control systems, ABF GmbH was commissioned to supply a cross-plant Manufacturing Execution System (MES) for it.

For the new production line in Arbing, the **OneBase**®MES takes over the production batches in the form of press fills from the ERP system. Taking into account the availability of input material and the stock levels, the ABF software calculates the so-called material forecast. Based on this, the sawn timber packages are delivered to the cross-cut and sorting line by the forklifts according to demand. By means of the quality recognition in the "Golden Eye", goods-sorted lamella packages are generated and transmitted by the MES to the ERP system for warehousing.

In the further course, press fillings and layers can be reordered within the ABF software to minimise the set-up processes. This order sequence serves as the default for longitudinal and cross-layer production. In addition, ABF provides the high-frequency press with information on the detailed panel structure.

When the panels are being processed, the existing raw panels are displayed. The work order can be defined and changed. Important status information, such as turning, blocking or rejects, can be managed in the system. At the end of processing, labelling is triggered, the status of the components is recorded and the ERP system is informed accordingly.

The **OneBase**®MES ensures full transparency and traceability. The process states of all production areas are real-time visualised, and the production data are available to the system operator.

The ABF implementation of the production control system replaces manual entries by scanning barcodes. The ABF software collects all data in real time and enables LOC Holz to closely monitor and control the production process. Based on the available production data, optimisations can be carried out and the quality and efficiency of production can be ensured and further increased.

Overall, the implementation of the ABF's MES contributes significantly to the successful commissioning of LOC Holz' new cross laminated timber plant. This project shows that innovative technologies and good cooperations between production companies and technology providers are the key to success.

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