

Success Story

FORKLIFT GUIDANCE SYSTEM AND WMS IN A BLOCK STORAGE



Client

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„The intralogistic system from ABF provides reliable monitoring of internal material movements and the 3D guidance is a really useful tool to increase the efficiency of the forklift driver's work. The ABF team always helps to achieve the best solution to the raised problems.“

[!] INITIAL SITUATION

- ▶ The material search in the warehouse appeared – due to the lack of structures – confusing and time-consuming.

[PEOPLE] CHALLENGE

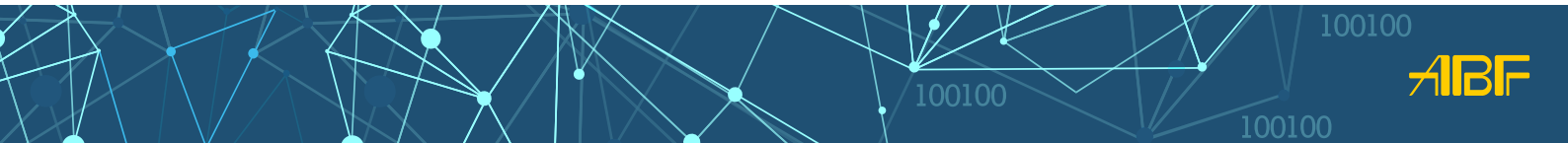
- ▶ A standardised communication of the different forklift types and interfaces with the warehouse management system.

[LIGHTBULB] SOLUTION

- ▶ Integration of a material flow control system and implementation of comprehensive rules and introduction of an automatic and consistent material tracking system

[+] BENEFIT

- ▶ Optimised control of warehouse, manufacturing supply and dispatch.





Warehouse Management



Control Engineering

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Finsa was founded in 1931 as a small sawmill on the Iberian Peninsula and is now one of Europe's leading companies in the wood-based materials industry. At a total of 12 production sites in Spain, Portugal and France, the company manufactures MDF boards, laminate flooring, decking boards and garden fencing, among other products. At the Pádrón (ES) site, we were commissioned to implement our warehouse management system **OneBase®MFT** including a forklift guidance system. Since the introduction of **OneBase®MFT**, the processes in the warehouse, production and shipping are not only optimally controlled, but also transparent.

In the warehouse of the MDF board producer, the transports of the pallet block stores are now automatically tracked, and the material flow is controlled by specifying transport orders for forklift drivers. At Finsa, we are running our most advanced 3D forklift guidance system to date, perfecting the material flow with all putaways as well as the loading at our customer's site.

OneBase®MFT optimizes the transports in the warehouse through a comprehensive set of rules for destination and material search. Furthermore, the resulting transport orders are additionally priori-

tized taking into account the current transport center position. The intelligent order distribution ensures the selection of optimal routes. In addition, the forklift guidance system with 3D visualization on the means of transport and the central administration application enable a dynamic management of the warehouse and maximize intra-logistics transparency.

To enable data exchange across different levels, standardized interfaces to the existing production control system (MES) and the ERP system (SAP) were implemented. These enable automated material bookings from the store floor level to the ERP system.

To ensure a smooth commissioning of **OneBase®MFT**, we not only took over the engineering but also the provisioning and installation of hardware components. In addition to a real-time locating system (laser locating from IdentPro), the ultrasonic sensor technology for load detection was also installed on 12 forklifts.

During the successful implementation of **OneBase®MFT** in Pádrón, a rollout to 11 additional sites (with 150 forklifts) was agreed on. The implementation in Cella (ES) has already been completed and was carried out remotely due to the current travel restrictions.

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