



Refresco
Our drinks on every table

Complete transparency in intralogistics: More productivity and reliability in the Refresco warehouse.

Refresco benefits from fully automated warehouse logistics: Digital Twin, forklift guidance system and integration with SAP[®] EWM.

IMPLEMENTATION OF WAREHOUSE EXECUTION

Refresco Germany is part of the international Refresco Group, which is one of the leading producers of fruit juices and soft drinks in Europe with over 6 billion litres. The planned expansion of production capacity by 25 % at the largest German site in Erfstadt, as well as the increased loading volume due to the consolidation of two sites, required significantly improved efficiency in the warehouse. Previously, 50 % of all warehouse movements were empty runs and the forklifts were assigned to fixed and inflexible tasks (storage, loading, supplying picking).

REQUIREMENTS

- Reduction of 50% empty forklift trips
- Intelligent distribution of forklift orders
- Scan-free processes
- Production expansion by 25 %
- Consolidation of two locations
- Update from SAP[®] WM to SAP EWM[®]

SCAN-FREE WAREHOUSE

Refresco's goal was to increase process efficiency and eliminate time-consuming mechanical operations such as manual scanning, searching for pallets, storage locations and batches. The warehouse movements should be optimised and made more efficient in order to significantly strengthen the supply chain.

UPDATE FROM SAP WM TO EWM

The previous warehouse management system - based on a classic SAP[®] WM solution with hand scanners - was converted to SAP[®] EWM and automatic localisation and identification of the forklifts and pallets by using the integrated 3D forklift guidance system within identpro's Warehouse Execution System (WES).

The use of the WES eliminates the need for scanning during putaway, picking supply and retrieval. Already in the pilot phase, a productivity increase of 20 % could be achieved.

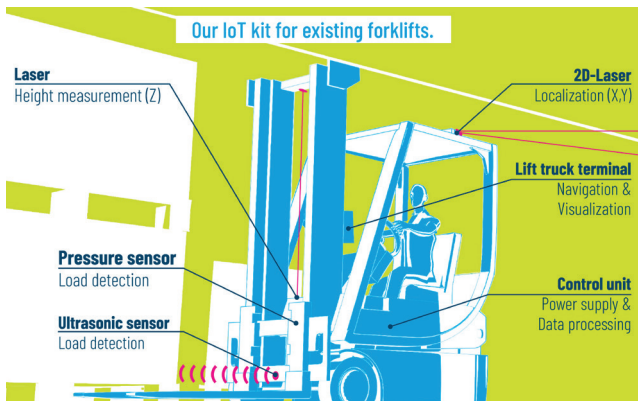


THE PROCESS

The example of incoming goods for the production order illustrates the WES process of identpro: Produced goods are transported from production on pallets via an automatic conveyor system to transfer points. The pallets are registered in the SAP EWM system by a scanner integrated in the conveyor system. The ERP system automatically generates corresponding transport orders for these goods/pallets, which are transmitted to the identpro software. As a rule, six transport orders are created for six units/pallets, which are accepted simultaneously at the transfer point.

QUICKFACTS

- 13. forklift truck (double-length forks)
- 35,000 sqm, 38,000 parking spaces
- 7 transfer points on the conveyor line
- 36 loading ramps
- 7,000 movements per day
- Integration SAP EWM®, Partner: prismat GmbH
- 25% increase in productivity of the warehouse fleet
- 100% inventory security, error-free goods issue
- ROI under 15 months



STATEMENT

„Our goal was a significant and sustainable improvement of efficiency in the warehouse. After evaluating other solutions for forklift tracking, we decided on the software solution with integrated forklift guidance system from identpro. The system works reliably and integrates optimally with SAP® EWM. Today, we transport well over 25% more pallets with an unchanged fleet of forklifts. identpro is a constructive and reliable partner. The optimisation of further locations with the forklift control system is planned.“

Michael Belitz, Head of Logistics, Refresco Deutschland GmbH

AUTOMATIC IDENTIFICATION

When a forklift picks up pallets at the pick-up location, the handling unit of each picked-up pallet is automatically queried without manual scanning. This saves Refresco an average of 90 seconds per pick-up process at this point. The employee transports the goods to the block storage specified by EWM. When the pallets are set down, feedback is automatically sent to EWM with booking of the pallets to the corresponding stitch in the block - again without manual scanning, time saved: a further 30 seconds.

All feedback to EWM also takes place automatically during picking supply and loading, without intervention by the forklift drivers.

