

SAP Logistics Solutions CHT R. Beitlich GmbH, Tübingen/Germany

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References

Chemical Industry
Modernization



SAP LES replaces 15-year-old WMS

Initial Situation:

At its Dusslingen location near Tübingen, Germany, CHT R. Beitlich GmbH produces and stores specialty chemicals for the textile industry and the building materials industry on a site of approx. 80,000 square meters (20 acres) – a total of more than 1,700 different finished products and of 950 different raw materials. There are approx. 10,200 storage locations available for finished products in a fully-automated high-bay warehouse, plus another 3,000 for liquid raw materials in a semi-automated high-bay warehouse and another 1,200 for powder products in a third high-bay warehouse. In addition, there are special warehouses, for instance for organic peroxides and for inflammable liquid materials, as well as other rack storages for instance for special packages. So far, CHT has been working with an ERP system developed in-house. The warehouse has been managed by means of the warehouse management system viaware 4 that was launched 15 years ago.

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System Solution:

When the SAP ERP system was introduced on a company-wide basis, the old WMS was replaced by an integrated SAP-LES solution (Logistic Execution System). Today, all WMS functions of the automated system as well as all functions of the conventional warehouse sections are integrated in the new SAP ERP system. The existing material flow system and the visualization of the automated system remained in place and were linked to SAP via a certified interface.

The Result:

The working conditions for the employees have improved significantly. The new SAP solution is more user-friendly and more efficient. CHT is now able to supply between 200 and 300 tons of finished products per day, at the correct quantity and just in time.

Scope of Supply:

An SAP LES solution for an integrated warehouse management in the fully-automated high-bay warehouse and in the FCS-controlled manual warehouses.

Essential Features:

Warehouse management

- storage of hazardous materials in compliance with the VCI directive (VCI = Association of the German Chemical Industry)
- check of hazardous materials in accordance with the prohibition of the merged storage of mixed pallets
- management of full / partially emptied containers
- optimized operating dialogs (storage, picking)
- supply and provision to the production

High-bay warehouse with 8 SRM

- approx. 12,000 storage locations
- weight check NOMINAL/ACTUAL for the inbound pallet
- storage within the limits of the maximum permitted shelf load in the rack system
- storage under consideration of the hazard zones
- picking on 8 pick stations
- automatic supply of empty pallets to the pick stations
- labeling of hazardous materials
- return transfer of the picked pallets into the HBW
- supply demand for loading
- provision of pallets at 10 loading stations

6 manual warehouses

- approx. 7,000 storage locations
- manual warehouses with radio-frequency operation
- narrow-aisle warehouses with FCS-controlled transports