

REFERENCE

Remediation of a logistics centre



**BRINGING A 16-LANE
HIGH BAY WAREHOUSE UP TO THE
LATEST STATE OF THE ART**

Dock 100 — —



DOCK 100
BERLIN, GERMANY

Key data of the facility

16 stacker cranes, 40m high
 70,040 Euro-pallet storage spaces
 Conveyor system link to 9 levels
 Transport units up to 1.5 tons, in
 3 height classes up to width of 1.4 m
 Approx. 1,500 movements per day
 Initial state:
 6 redundantly configured material flow
 computers look after
 39 PLCs via H1 bus

Retrofit for legendary high bay warehouse

In 1989 one of the most modern logistics centres at the time was erected in Berlin Tegel. The high bay warehouse with a height of some 40 metres, a total of 16 stacker cranes and approx. 70,040 pallet storage spaces served the firm of Herlitz as its production buffer store. Today the logistics real estate has become a part of „Dock 100“ - a commercial and logistics park on Borsig Port and is let to a number of clients.

Within the scope of comprehensive retrofit measures, Unitechnik has been entrusted with the order to replace important elements of the control and warehouse management system with new modern systems. To be put to use are S7 controls and Unitechnik's UniWare material flow and warehouse management system. One important requirement to be satisfied by the new warehouse management system is that the warehouse can be used flexibly by a number of clients.

Since the logistics centre is operational and must remain so all the time, the conversion measures have to be accomplished while the warehouse is „in operation“. For this reason precise planning and thorough testing represent essential parameters for the success of this „surgical“ operation.

Scope of Unitechnik contribution

Main contractor
 Control engineering:
 Integration of the most modern control system for pallet conveying and stacker cranes
 Material flow control and visualization
 Simulation
 Warehouse management system:
 multi-client capable UniWare
 Integrated forklift guiding system
 LAN and WLAN networks
 Diverse ERP interfaces
 Construction of switchgear, erection (mechanical / electrical)
 Commissioning and training
 Service contract
 Completion: 2010

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