

REFERENCE

Daily storage for the vehicle handover



ELEVATING TRANSPORT VEHICLES
ON THE FAST LANE



Unitechnik
PERFECTION AUTOMATED.



BAYERISCHE MOTORENWERKE AG

MÜNCHEN, DEUTSCHLAND

Key data of the facility

Underground high-bay warehouse
with 286 storing positions for cars
110 m long aisle with 2 ETVs which
can drive past each other
4 transfer boxes
with respectively 2 doors
2 lifts
Working areas for the preparation
of the vehicles
Automatic washing plant

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The BMW Welt in Munich is a customer center of a special kind. The buyer of a new vehicle is collecting his new BMW by an impressive setting. About one day earlier the vehicle is taken to the „BMW Welt“ and stored in a fully automatic daily storage. In the basement of the futuristic building up to 286 BMW automobiles are waiting for their new owner. After delivery of the vehicles they are cleaned in the automatic washing plant and polished to a high finish on the preparation stations. By entering the handing over box the BMW is handed over to the automatic high-bay warehouse. The cars are transported and stored on a steel grating pallet which is turned lengthwise during the drive. The special thing about this one-aisle warehouse is that it has two ETVs, which can drive past each other. By the redundancy of the systems the facility has a very high availability, since no customer shall drive home without his looked-for BMW.

Scope of Unitechnik contribution

Control engineering:
Simatic S7-400 with fail-safe
CPU 416F-2
Profibus-DP
Redundant collision supervision
by software for the two ETVs
Warehouse management system:
UniWare-System for warehouse
management and material flow
with integrated plant visualization
Coupling to the
“BMW Welt Management System”
via IBM Websphere MQ
Control cabinet construction, assembly,
commissioning and training
Overall responsibility:
Vollert GmbH+Co.KG
Completion: 2007

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