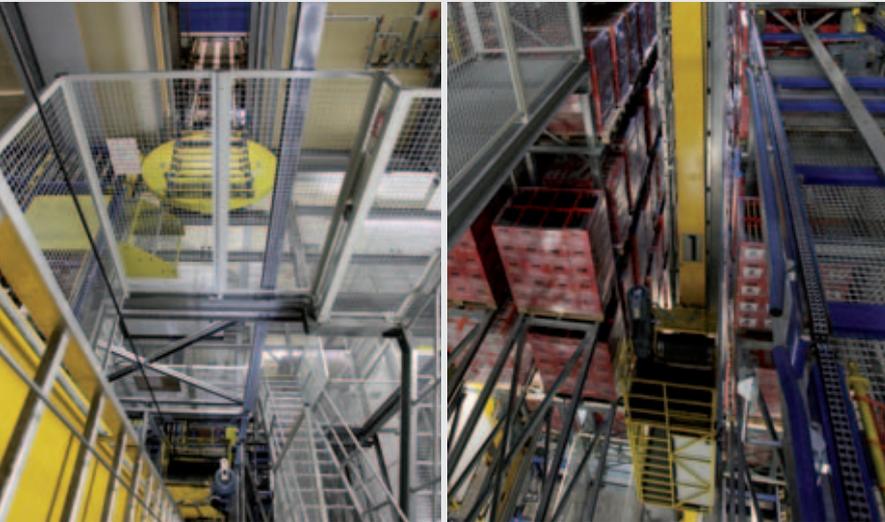


FUTURE-PROOF, ONE STEP SOLUTION

Case Study
Budweiser Budvar N.C.
České Budějovice (CZ)





On the top level, at a height of 10 metres, the pallets are located, aligned and stored



One double deep and two single deep aisles in a High Bay Warehouse 26 metres high

Project Objectives

- ▶ Extra storage capacity for additional production lines
- ▶ Optimized utilisation of limited existing space
- ▶ High Bay Warehouse for storing non-stackable boxed goods
- ▶ Hundred percent process control and minimized order picking errors
- ▶ Automation and integration of various storage processes such as RFID into one central Warehouse Management System
- ▶ Increased throughput
- ▶ Scalable storage system to accommodate future increases in capacity

Our Scope of Supply and Services

- ▶ Compilation of logistics concept
- ▶ Planning of realisation
- ▶ Steel-frame construction
- ▶ Roof and wall
- ▶ Pallet conveyor system
- ▶ Storage and Retrieval Machines
- ▶ Visualization
- ▶ Warehouse Management and Control System

High Bay Warehouse (HBW)

L x W x H	46 x 15 x 26 m
Load make up accessory	Euro pallet
Storage positions	3.000
Weight	Max. 900 kg
Storage type	Single deep/ one aisle double deep
Ambient temperature	Yes

Storage and Retrieval Machine (SRM)

Number of SRMs/ aisles	3/3
Load accepting device	Telescopic fork
Horizontal travel speed	130 m/min.
Lifting speed	54 m/min.
Handling capacity	Single deep 100 DC/h

Maximizing Warehouse Capacity and Throughput With Optimum Space Utilization

For the tradition-rich brewery Czech Budweiser Budvar N.C., SSI SCHAEFER acted as general contractor designing and implementing a growth oriented intralogistics concept at the production site of České Budějovice (Budweis). The latest technologies, RFID integration and a precisely tailored WMS incorporated significant levels of automation in the complex storage processes optimizing space utilization, increasing throughput and reliability. To ensure that Budweiser can meet the growing export demand for 1.3 million hectolitres of beer each year, a 26 metre high bay warehouse with a silo design up to 6 metres below ground level was installed in 2009. SSI SCHAEFER integrated the silo into the warehouse processes, with construction completed in just 10 months. To speed up the inbound storage and outbound retrieval and to avoid time consuming storage location scanning, SSI SCHAEFER used RFID in combination with storage location of the product. All warehouse channels in the block storage area are identified using RFID tags.



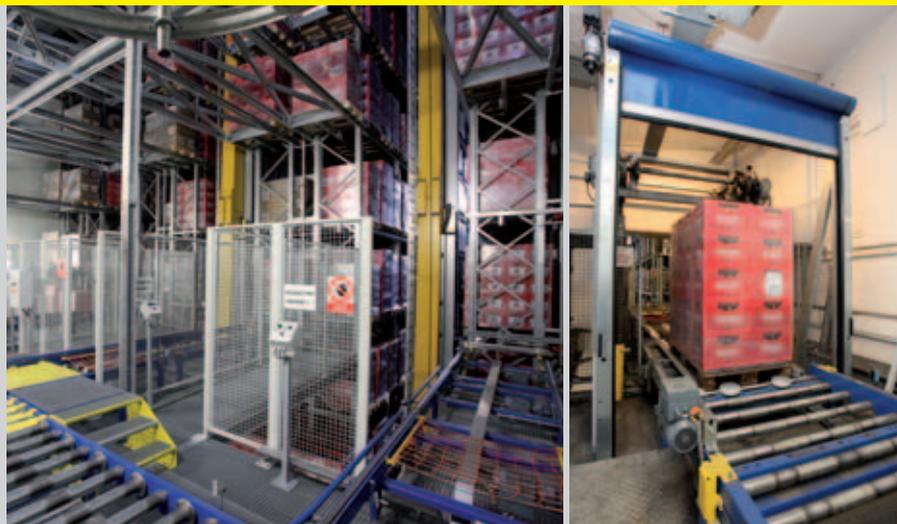
The high bay warehouse front section in the dispatch area is 6 metres below ground level

Pallet Conveyor System

Components	Roller conveyors, chain conveyors (total length approx. 97 m) Feed-in stations Lifting stations Turning stations with roller conveyor (90°)
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Warehouse Management System

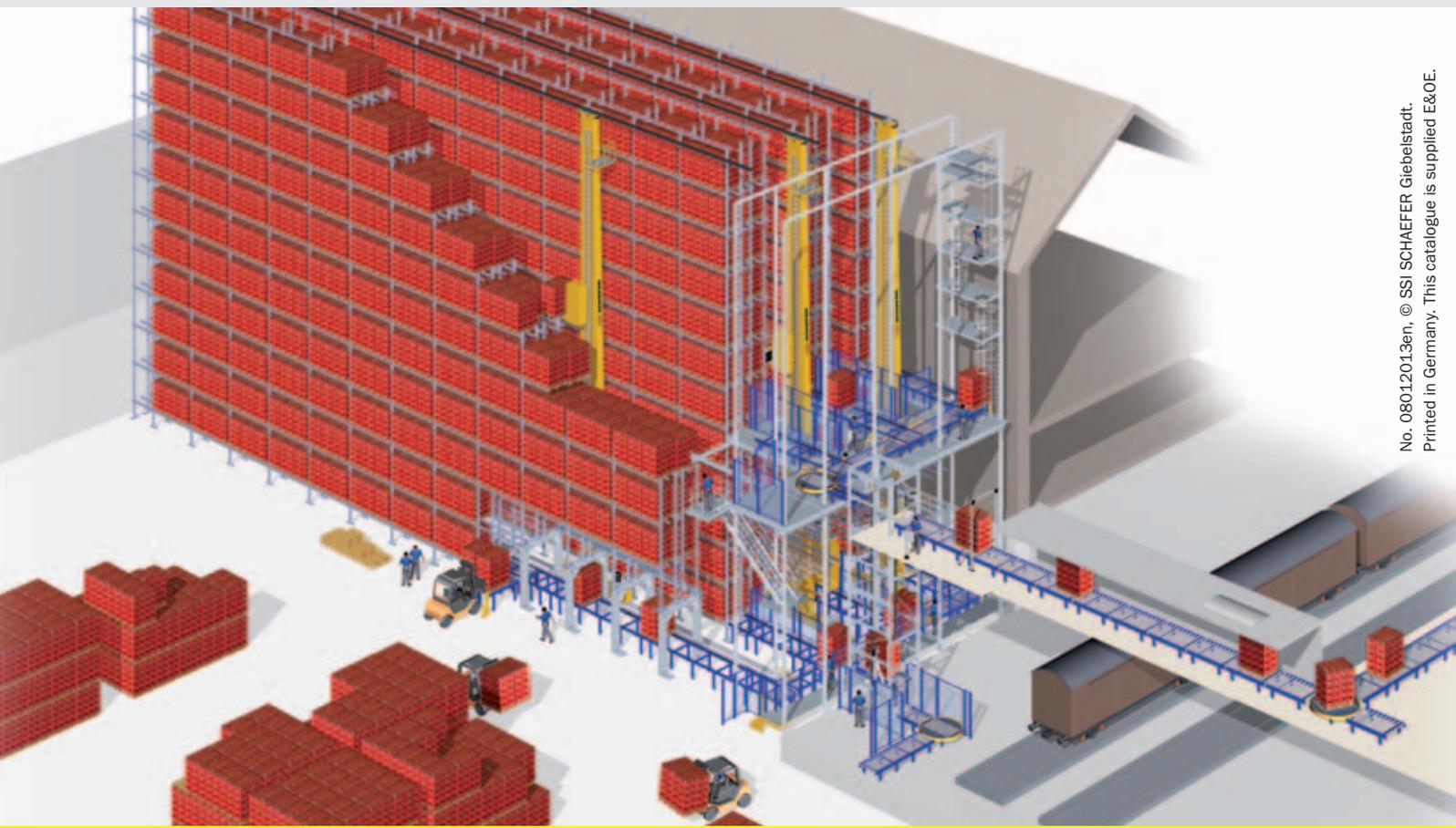
Computer hardware	HP ProLiant 380 G5
Operating system	Windows 2003 R2 Server
Database system	Oracle 10g Standard Edition
WMS software	Osiris WMS
Functionalities	- Warehouse management - Goods receiving/connection - Control of material flow - Visualisation - Management of the storage positions in the manual warehouse via RFID



Inside storage and transfer to the conveyor system via automatic contour and weight control



Truck loading zone: Preparation for dispatch to over 50 countries around the world



- ▶ General contracting
- ▶ Planning and consulting
- ▶ Warehouse Management System
- ▶ Control systems
- ▶ Steel structure/racking systems
- ▶ Storage and Retrieval Machines
- ▶ Conveyor system
- ▶ Service and maintenance

 **qualityaustria**
SYSTEM CERTIFIED
ISO 9001:2008 No.07908/0

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