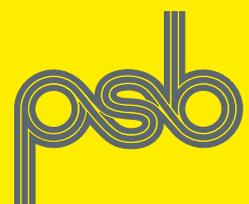




psb Best Practice

Bundeswehrkrankenhaus

Automatic vehicle system



CREATING YOUR
INTRALOGISTICS



Bundeswehrzentral-Krankenhaus

Automatic vehicle system for hospital logistics

Customer

Bundeswehrzentral-
Krankenhaus
Koblenz | GER

System

Transport system with 23
Automatic Guided Vehi-
cles (*carobot*), conveyor
system plus *selektron*
SCADA

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The Bundeswehrzentral-Krankenhaus (Central Hospital of the German armed forces) in Koblenz ensures full medical care for members of the armed forces as well as the public. A considerable investment was made to modernize and improve the overall efficiency in the hospital logistics.

Design criteria

The uninterrupted, automated flow of goods between the main hospital wards, kitchen, pharmacy, operating rooms and waste disposal were designed in cooperation with several companies in a general contractors structure, under the leadership of psb. In a route of more than 1,700 m, approximately 500 transports (25 meal containers and 113 general-purpose containers) have to be carried out daily. In all solutions, special attention had to be paid to the hygienic aspects, essential in a hospital environment.

The solution

The manual operation was replaced by the automatic transport system (AGV) implemented by psb. Each transport order is carried out and reported immediately (online communication).

Tried and tested components were combined with psb's know-how of complex computer-controlled material flow installations. Working on a defined strategy, a control station co-ordinates and optimizes the administration of the transport orders for 23 *carobot* (psb's own AGV).

The systems technology supplied by psb has been extended by *selektron* SCADA, the central monitoring system, plus the control system and additional conveyor technology.

In the meantime, the original intralogistics installation from the year 1998 has been enlarged in several stages. With the AGVs having been changed to laser contour navigation, a comprehensive modernization has taken place as well. Now, the definition and change of routes is much easier.

