



Optimizing Medication Safety

University Medical Center of the Johannes Gutenberg University Mainz, Germany

Automating the pharmaceutical stock in the hospital pharmacy represents an important step towards medication safety and seamless tracking of all medications.

The fully automated storage and dispensing system supplies medication to the Mainz University Hospital Group comprising of 60 hospitals and institutes with over 1500 beds serving the population. The automated medication management system allows capture of expiry dates and batch numbers, including e.g. automated batch recalls, management of high risk medication and proactive reorder management.

Facts & Figures

Rowa Vmax™ dual system,
each L 15 × W 1.63 × H 2.90 m

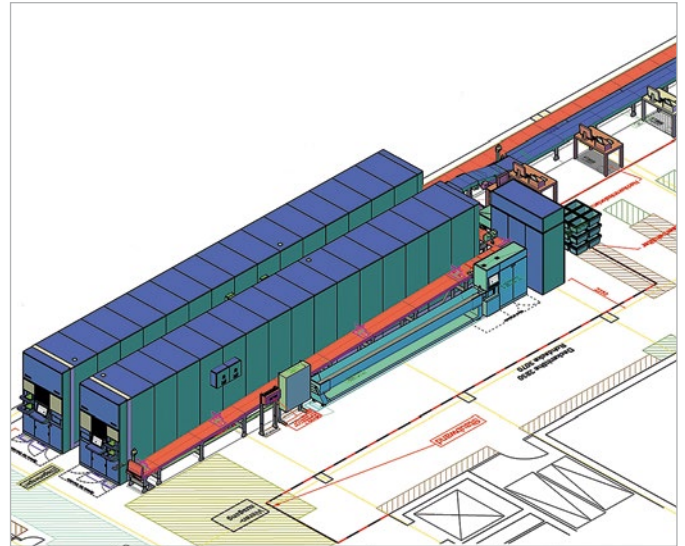
Capacity: 70,000 packs, approx. 1,500 items

Air-conditioned storage: 22 °C

Fully automated Rowa ProLog™ stock input:
180 packs per hour

De-stacker: 90 containers,
> 40 m container conveyor technology

Daily stock output for the wards:
4,000 packs, 80 % fully automatic



Optimized pharmaceutical logistics

Following an electronic request for medicines from the wards, a pharmacy technician checks, validates and forwards the order to the Rowa Vmax. The Rowa Vmax using its customised software solution calculates the number of transport boxes needed, retrieves the ordered medication, places them on a conveyor belt and then transports them to the boxes. Each box is assigned an individual barcode that associates the medications to the transport box and box to the ward for complete visibility and transparency.

Integrated stock management

The Rowa Vmax is a combination of hardware and software that integrates with the pharmacy stock management system. This allows fully automated picking, retrieving, tracking of medication, labeling and a printout of the delivery notes in an integrated and complete system. The automatic reporting function simplifies stock ordering, administration and ensures inventory is always available to serve patients.



“With the Rowa solution we have automated large parts of the hospital pharmacy processes and thus reduced the potential for mistakes to a minimum. As a result, we have further improved in terms of drug safety and are well positioned for the future.”

Prof. Dr. Irene Krämer, Director of the Mainz University Center Pharmacy

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