

CASE STUDY

OSPEDALE DI CIRCOLO E FONDAZIONE MACCHI VARESE



BoxPicker is the automated warehouse for management, storage and distribution of drugs and medical devices

The Customer and the requirements

The Technical Solution:

- > 2 BoxPicker systems with 8 modules and 4 picking bays
- > 2968 stock locations
- > Pharmacy products managed through BoxPicker: 80%
- > Average occupation rate: 83%

- > TheMa Stock Manager for management and control of pharmacy and wards stock

- > 11 AGV vehicles
- > 45 ETV canisters

- > Commissioning in 2007
- > 1000 patients served on four facilities

The "Ospedale di Circolo e Fondazione Macchi" of Varese was established more than nine centuries ago and it has passed through several renovations.

The latest renovation started in 2002 and led to the construction and opening of the brand new facility called "Monoblocco" in March 2007.

The Monoblocco lays on the south edge of the hospital plant extended on a total area of 68.600 square meters and it is composed by a three-floors services block and two six-floors towers where the care units are located.

The Monoblocco counts 505 beds and it faced a considerably improvement in the Intensive Therapy unit (from 36 to 57 beds) and Emergency (from 12 to 16 beds).

The hospital of Varese is equipped with the most effective technology dedicated to the patient care.

The integrated technologies support the flow of people and material within the facility in order to facilitate the operators during their daily activities.



"Thanks to introduction of automation, the quality of job for all the operators is definitely improved and the transport scheduling allows us to better plan the working routine and the operations timing."

Dr. Giorgio Perriccioli
Head of Pharmacy Logistics



The Swisslog Solution

The hospital of Varese chose Swisslog as logistics partner for the management and transport of goods and pharmaceuticals within the new unit.

The solution supplied by Swisslog consist of:

- > BoxPicker: Automated Drug Management System
- > TransCar: Automated Guided Vehicle
- > UniCar: Electric Track Vehicle.

With the introduction of the Swisslog logistics solution, the supply of materials to the ward has been completely reengineered.

Previously all the operations were carried out manually, the ward nurse charged the replenishment request on a paper form and, after validation of the pharmacist, in the pharmacy the operator collected from shelves the materials listed and prepared the canister to be delivered to the requesting ward.

Now the replenishment procedure is completely automated. The pharmacy features two BoxPicker systems with a total of 2.968 storage locations for the automated management of drugs.

The traceability, picking and replenishment of the drugs stored in the BoxPickers are managed automatically and are interfaced with Stock Manager, the software application for the stock

management at both pharmacy and ward level.

The operators, following a computerized routine, have just to pick the materials stored in the automated warehouses and prepare the canisters for each ward.

The delivery of pharmaceutical items is ensured by our AGV system. Besides pharmaceutical items, the AGV system is in charge of the transport of goods from/to the kitchen, the laundry and the warehouse. Waste is also transported by this automated system, creating considerable benefits for the hospital staff and improving their safety.

The TransCar fleet is composed of 11 units which perform their duty according to an automated schedule that is controlled remotely.

Last but not least, the "light" transports are also provided by Swisslog. In fact, our UniCar, the Electric Track Vehicle (ETV) system, is installed in the hospital to manage the transport of documents, specimens, blood from wards to the technical laboratories and vice-versa. 45 containers are available to run on the tracks on a 24/7 basis.

Benefits for the Customer

Thanks to the logistics automation of operations and transports, the hospital of Varese reports the following benefits:

- > Optimization of spaces
- > Reduction of working time
- > Improvement of motivation and professional skills
- > Complete control of stock in real time
- > Optimal planning of Pharmacy routine
- > Accuracy of delivery to ward
- > Tidiness and clearing operations simplified

Varese is the perfect example of a modern and well-equipped hospital, where high technology logistics systems provided by Swisslog are perfectly integrated into the architecture of the hospital to provide patients with the best and most effective cares.

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