

HOSPITALS AND HEALTHCARE

Automated material handling solutions



AUTOMATED MATERIAL HANDLING SYSTEMS

Did you know that over 70% of all material flow in healthcare can easily be automatized? Imagine all the hours per day spent on walking and transporting goods from a place to another liberated to perform tasks that require the human eye and precision.

Automation and robotics offer completely new possibilities for handling material flows. Automation can generate significant savings, accelerate material handling, improve patient and occupational safety, and enhance the ergonomics and wellbeing of employees.

Automation can for example handle the transport of:

- Samples
- Drugs
- Blood probes
- Pharmaceuticals
- Blood preservations
- Vaccines
- Intravenous drips
- Instruments
- Sterile supplies
- Waste
- Linen and laundry
- Meals

ALGOL TECHNICS

Algol Technics is a Finnish material handling expert with over 120 years of experience. For healthcare we offer systems in which heavy and monotonous lifting and moving tasks are automated. Systems are modular and scalable to the individual needs of hospitals.

- Conveyors
- Automated storage solutions
- Robots
- AGVs and Mobile Robots
- Retrieval and packaging stations
- Software
- Application programming

We also offer comprehensive maintenance and service for all our solutions. Our services range from individual repairs to 24/7 maintenance agreements.

We believe that by creating safer and more ergonomic working environments we can improve the general well-being of the employees.



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AUTOMATED STERILIZATION CENTER

The work at the sterilization center requires typically a lot lifting, pushing and pulling as well as carrying heavy loads. Automation helps to ease the work and improve efficiency as the employees can concentrate on their real tasks while automation takes care of all transportation.

There are many steps to automatise within a sterilization center: transporting dirty instruments to the center and delivering back clean instruments, all the tasks that require lifting as well as transporting from procedure to another.

MOBILE ROBOTS

Mobile robots are autonomous intelligent vehicles that can serve as a single robot or a full fleet of robots carrying goods from place to another. They are self-mapping and have a self-navigation system which means they are easy to set up. Just teach the route once and the robot is ready to go. They can be equipped with robotic arms, locked storage or conveyors and can be taught to communicate one way.



Omron LD mobile robot is also available in cleanroom rating: Fed Class 100, ISO Class 5



Telelift UniCar



TELELIFT UNICAR TRANSPORTATION SYSTEM

Specially designed for hospitals, the Telelift UniCar transportation system takes material flow handling to another level. UniCars travel on rails that are built by the ceiling limits and through hospital walls.

The cars have an antimicrobial coating and are UV-C lighted inside. This prevents the distribution of germs and bacteria. The interior of the UniCar rotates which guarantees an absolute gentle run: no jolts, no shaking, no spills. Typical transport goods which can be conveyed with UniCar systems include blood and laboratory samples, results,



instruments, sterile goods, medications, and stored blood. The safe and hygienically flawless transport of these goods is especially important, since it makes a decisive contribution to patient safety.

AUTOMATIC STORAGE

Automated storage systems are an efficient and reliable solution for storing sterile goods and other equipment. Automated storage solutions often include automated conveyor and retrieval systems. A storage robot automatically stores and retrieves items from storage in the right order, eliminating the need for any manual retrieval work.



HOSPITAL BED STORAGE SYSTEM

This unique system can automatically transport and buffer hospital beds in the vertical way. Used beds are stored into a special elevator which stores the beds until they're called for cleaning and sterilization. One elevator tower can store up to 61 beds and it can be 40 floors high. After cleaning, the beds are put into a separate elevator which stores them the same way.

The hygiene level is tightly secured as the used beds are never mixed with clean ones. The systems removes the beds from hallways and increases working capacity as the employees no longer have to transport empty beds through hospital hallways.

Algol Technics is a part of Algol Group. Algol is a Finnish family enterprise founded in 1894 that supplies products and solutions for industry and healthcare.

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Productivity in motion

