

MODERN  
HOSPITAL  
LOGISTICS

AUTOMATED  
MATERIAL  
TRANSPORT  
IN HOSPITALS

The World's Leading

# Medical Logistics Partner



**telelift**  
Innovation for *Logistic* Solutions

Partner

Hospitals

University clinics

Out-patient clinics

Operation rooms

Hospital pharmacy

Blood banks

Sterilization

Central warehouse

Intensive care

Emergency admissions

Archives

Reception

Wards

Production of infusions

X-Ray departments

## Telelift — Your partner for optimal logistical solutions in hospitals

Our powerful and energy-efficient transport system, UniCar, is the all-rounder for a wide variety of transport assignments which crop up every day in hospitals. Its sealable containers allow loads of up to 15 kg. Equipped with high-tech security applications, it allows the safe, seamlessly monitorable transport of high-quality or sensitive medical products and also meets the highest hygiene requirements.

Telelift is the leading manufacturer of rail-guided conveyor systems for moving small goods of up to 15 kg within an operation. We offer material flow solutions as a total solution for hospitals - from the design and planning to installation and commissioning.

Telelift transport systems are very durable products with low wear and tear, which we maintain at the cutting-edge of technology through a lifetime partnership and which we can adapt to meet new logistical requirements as needed.

## Optimizing logistical processes – reducing costs, increasing quality, improve hygiene

Today hygiene plays a central role in the hospital sector. At the same time, increasing cost pressure in the healthcare sector (healthcare reforms, VAT increases, personnel costs and a shortage of skills) has meant that hospitals and other healthcare facilities have had to find new ways to work economically in the future. Improved design of the various logistics processes is often not recognised as a possible means for improving hygiene in hospitals. The optimisation, integration and unification of previously scattered logistics chains reduces costs and helps to significantly improve the use of available resources.

Experience shows that the optimisation of logistics processes also leads to considerable improvements in quality. The UniCar system can transport all loads weighing up to 15 kg. This frees staff from transportation duties, allowing them to devote 100% of their time to the patients.

Telelift systems are reliable, quiet and safe. There are no waiting times. Process costs become more transparent and potential losses caused by safety transports are minimised. A Telelift system can be integrated into existing logistics processes and merge diverse requirement areas in hospitals.

The investment pays for itself after only a few years when the system is fully used. Our core competence: the improvement of processes and quality in hospital logistics.

TELELIFT TRANSPORT SYSTEMS: EXCELLENT PERFORMANCE IN THE SUPPORT OF LOGISTICAL PROCESSES.

- > Logistics for drugs and medical products
- > Logistics for intravenous drugs
- > Logistics for blood samples and lab samples
- > Shipment of documents
- > Transportation of sterile products and surgical instruments
- > Recurring shipment assignments
- > Safe transport of morphine and other powerful drugs
- > Transport of many other goods up to 15 kg



## Trust in Telelift

- > Market leader with more than 50 years' experience and 500 installed systems in hospitals
- > One-stop shop – from design to the commissioning of the conveyor system
- > Satisfied customers for decades
- > Worldwide service network
- > Represented all around the world

## ✔ What is transported?



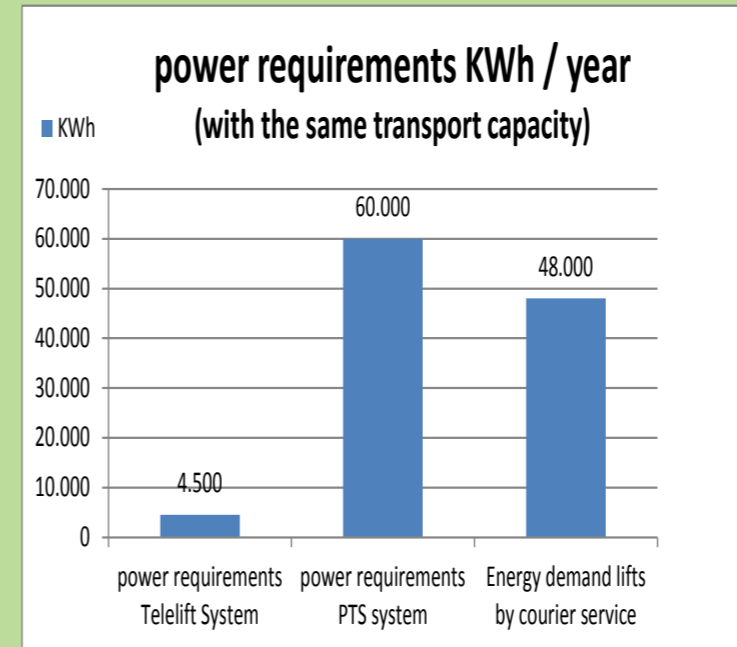
Most hospital supplies are light. UniCar vehicles have a load capacity of 36 litres and can carry loads of up to 15 kg. Compared with other transport systems used in hospitals, the Telelift UniCar is multi-talented.

Telelift UniCar is the perfect solution for fast and reliable transport between the different areas of a hospital. The UniCar system creates a holistic, integrated hospital logistics system by connecting to the other interfaces of logistics systems (pharmacy, storage, wards). Our silver ion coated transport containers make the flow of materials from and to the most important value adding stations (operating area, intensive care unit, blood bank, laboratory, pathology) safe, transparent and hygienic. Pneumatic tube systems on the other hand primarily focus on the transport of solid individual laboratory samples (blood is not possible) and cannot be used for many transport tasks due to their minimal volume. Manual transport is not sufficiently reliable for many goods.

### Telelift transports:

Lab samples  
Drugs  
Blood samples  
Blood products and plasma  
Vaccines  
Infusions

Radioactive medical goods  
Patient records  
Internal post  
External post  
Prescriptions  
Sterile goods



The energy requirement of a Telelift system represents one tenth of the energy requirements of a pneumatic tube system. The message service performed by pneumatic tube systems additionally requires 10 times the energy of an alternative Telelift system.

## TELELIFT – AN ENVIRONMENTALLY FRIENDLY AND SUSTAINABLE TRANSPORT SOLUTION



- > very low energy consumption (only those vehicles in use consume energy )
- > long life - average lifetime of 30 years
- > older systems can be modernized
- > long-term availability of spare parts and parts subject to wear and tear
- > no problem waste caused by PVC materials

## The UniCar trolley – ultramodern technology for perfect transport



### Antimicrobial design

The Telelift system is optimally designed for use in sterile and hygienically demanding areas. The surfaces of UniCar vehicles are coated with antimicrobial DURA®care which effectively meets the hygiene requirements of a modern hospital. Optimal UV-C radiation disinfects the interior of the entire vehicle on request or cyclically.

### Suspended insert

A pendulum insert is located in the vehicle, ensuring that liquids remain horizontal during transport, are treated carefully and not shaken. In contrast with pneumatic tube systems, there is no risk of hemolysis or danger of corrupting blood values.

### Trolley-ID

Every vehicle is equipped with a permanent identification number, allowing for 100% monitoring. This together with a personal PIN number encoding during loading and unloading allows for complete monitoring for all shipments.

### Electronic cover lock

Electronic locking lids protect the cargo against unauthorised removal during transport.

### One-hand operation

The new, single-handed operation of the vehicle makes handling even easier for personnel and additionally minimises the need for shelving.

### Security technology for injury-free operation

The vehicles are equipped with bumpers that stop them at the slightest touch.

Telelift

## The operation



Operation of the Telelift system is easy and self-explanatory. The new terminal has 6 main entry areas for users: home, settings, service, error messages, language setting and operating manual:

1. Home: The user sends and receives commands here. This is the standard default page used up to 95%.
2. Settings: Special functions can be configured in this area.
3. Service: Contains information on necessary repair measures.
4. Error messages: Displays which areas and components in the system are functioning erratically, e.g. switch malfunction.
5. Language selection: 3 out of 180 available languages are typically available.
6. Operating manual: Users receive a detailed explanation of all available functions and features.

This allows for new personnel to be easily trained within a few minutes and the system to be safely operated.

## The general advantages of a Telelift system



- > makes a significant contribution to cost-savings and quality improvements
- > efficient flow of materials
- > meets strict hygiene regulations
- > offers reliable transport for microbiological samples, radioactive and cytotoxic goods, thus providing a high level of protection for staff
- > safe, easy handling for staff
- > trolley coding
- > easily adaptable to new logistical operational requirements

- > space-saving and can be flexibly deployed, due to building block system of components; no more need for internal messengers
- > consistent, fast availability of items, generally < 10 minutes
- > no damaged items
- > can be used for scheduled and ad hoc shipments
- > 24h availability
- > fast maintenance, quickly redeployable

## For planners and architects

Telelift can be easily planned for hospitals from 100 beds.  
You need:

- > a planning order
- > one or two vertical shafts of 1.20 m x 1.20 m in the bed block
- > approx. 2.20 m x 0.60 m of space available for a Telelift system on each floor of the bed block
- > a building height of >3.00 m in the central area of the hospital
- > an area of 2.20 m x 0.60 m for the Telelift stations in the blood bank, patient admissions and in intensive care
- > an area of 2.80 m x 1.00 m for Telelift stations in the operating area, lab and pathology, storage, accident and emergency department, infusions and pharmacy
- > a room for the host PC



# For the customer

## Where do we begin?

- > Have you decided to improve the goods logistics in your hospital?
- > Do you want to reduce secondary costs in your hospital?
- > Would you like to increase transparency and have 100% traceability for your material shipments?
- > Do you want to reduce waiting times?
- > Do you need the greatest possible security in hygienic processes?
- > Do you want to make the operating theatre and bed block areas that add value even more cost-efficient without reducing staff?
- > Do you want to increase the proportion of direct care services?

## What are the requirements?

- > Your hospital has over 100 beds
- > You are prepared, if necessary, to move departments and wards in order to optimize transport logistics
- > Your employees support and use the benefits of integrated transport logistics for life-saving items



# Components

## Transport trolleys

The Telelift chassis is automotive and collision controlled. Like the container, it is completely covered with an antimicrobial surface and is controlled using advanced microprocessing technology. The Telelift trolley is designed for loads of up to 15 kg.



## Track network

The track is equipped with power rails for control communications and power supply. The track consists of horizontal, vertical and curved rails.



## Terminal

The terminal is the most important operating unit of the conveyor system. Hospital personnel use it to operate the system. Different input areas perform a wide array of functions. Vehicle shipments, however, can be performed using just 3 key functions:

1. „Container to destination“ button
2. Select destination
3. Release button to send container



## Fire protection

UniCar meets all fire safety standards. Motorised fire doors provide fire protection at all firewalls.



## Control center

The Telelift system contains a specially designed control system. All requirements for modern logistics processes with the highest quality and reliability standards are met thanks to central access to all active modules with simultaneous visualisation meets. Facilities maintenance and operating costs are significantly minimised.



# We get your goods moving

The high availability of our transport systems and customer satisfaction are always paramount for us. Use our service for regular maintenance, repairs, procuring spare parts or modernization.

## Structural planning and building design



Telelift conveyor systems connect workplaces in hospitals, libraries and production plants. Thanks to its flexibility and versatility, installation of the rail-guided UniCar transport system can be planned in almost any environment.

## System layout

The modular structure of the conveyor systems allows horizontal and vertical routes but also overhead sections without the load moving. Telelift systems provide reliable solutions to the logistical transport assignments occurring in hospitals. Our systems work inconspicuously with minimal space requirements, and they can be installed in already existing buildings with no problems.



## Consultancy, planning, project management

An experienced sales crew, designers and control technicians contribute their entire know-how to the consultancy work.

We plan the best possible routes for your hospital and draw up a tailored electrical plan taking all regulations into account.

Our experienced project managers ensure that the installation process runs smoothly and the system is commissioned on time. They are your first port of call for all issues from order processing to final acceptance of the project.



## Supply of spare parts, maintenance and training



During commissioning, we offer our customers training to allow them to conduct in-house maintenance and servicing. If so desired, Telelift service staff will offer maintenance and servicing tailored to the customers' needs. In the event of a malfunction, our service network will ensure short response times. Our helpful spare parts sales team will provide you with spare parts promptly.



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Library

Industry

Security

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