



Pneumatic tube systems for transporting laboratory samples, blood products, medications, and other medicinal products.

TranspoNet

Pneumatic Tube Systems

- + Increased efficiency
- + Enhanced quality of care
- + Better patient outcomes

Healthcare challenges

The core responsibility of healthcare providers is to improve patient outcomes through efficient, quality-controlled care.

Challenges

- Increasing costs
- Patient outcomes
- Quality of care
- Compliance and security

In today's increasingly competitive healthcare market, hospitals and health systems are faced with significant challenges: demographic changes, increasing costs and changes in regulatory requirements and patient expectations for quality of care. Add to that the needs for shorter hospital stays without loss of quality and an increase in efficiency to meet hospital goals and it's clear that optimizing internal logistics is becoming increasingly important to hospital operations.



Internal logistics is a critical success factor

Transporting goods plays a central role for efficient hospital logistics. The quality of that transport is critical to ensuring that materials are handled properly and delivered efficiently to support patient treatment, diagnosis and care.

Streamlining processes and increasing efficiency

Automated logistics solutions keep staff from having to transport goods manually, saving time and money and allowing caregivers to focus on their patients.

High demands for quality and performance and a patient-oriented strategy go hand-in-hand with a stronger focus on the hospital's core responsibility: caring for patients. Logistics solutions increase process quality, therefore increasing workflow efficiency.

Customer benefits

Focusing on the core business

- Eliminate non-value-added work for professional staff
- Increase time available for patient care

Streamlining processes

- Provide faster turnaround of data and goods for diagnosis and treatment

Investment for more competitiveness

- Pays for itself quickly
- High flexibility and scalability
- Integration of additional solutions

Optimized workflow efficiency means more time for patients

TranspoNet Pneumatic Tube Systems safely and reliably transport materials throughout the hospital, offering numerous benefits for health systems.

Increase process efficiency

Healthcare facilities cannot always plan or predict transport needs. Automating spontaneous transports with a pneumatic tube system means reducing any process interruptions, and increasing efficiency.

Provide more time for patients

Pneumatic tube systems release staff from transport responsibilities. Instead of carrying out pick-up and delivery tasks, employees can concentrate on caring for patients.

Speed up diagnosis and treatment

Pneumatic tube systems reliably transport goods in minutes – 24 hours a day, seven days a week. This saves valuable time and improves turnaround times. Laboratory results and medications are available faster.

Achieve fast returns on investment

TranspoNet Pneumatic Tube Systems pay for themselves within one and a half to three years. In combination with improving process quality and patient care, the cost effectiveness of a pneumatic tube solution leads to significantly higher competitiveness.

Support chain of custody for ultimate safety

TranspoNet Systems offer complete traceability of carriers and transported goods as part of its optional track-and-trace application. Access limitations and user authentication significantly increase transaction safety and security.



System overview

1 Goods for transport

Laboratory samples, blood products, frozen section specimens, medications, infusion bags, documents, medicinal products, and other materials are transported via pneumatic tube systems.

2 TranspoNet stations

Our stations are used for receiving and sending carriers. We offer many different stations tailored to customers' needs.

3 Tubes

Tubes can be installed on a single floor or on multiple levels, over short distances or across miles, through fire protection sections and across open-air areas, underground or in suspended ceilings, in existing buildings or in new construction.

4 Carriers

Carriers transport goods throughout the healthcare facility. Carriers are designed for specific requirements, such as LeakProof Carrier for safe transport of fluids and the SmartOpen Carrier for automated unloading in the laboratory.

5 Medical personnel

Medical Personnel no longer need to carry out transportation tasks. Handling goods and working at an ergonomic height also increases employee satisfaction.



Using **TranspoNet** Pneumatic tube systems for blood transport

TranspoNet meets the high demands of blood banks and laboratories for safe handling and traceability.

Blood Banks have three main requirements. Quick availability, traceability across the transport path and visibility and documentation:

- Chain-of-Custody solution enables complete monitoring of all handling and transport activities across the supply chain.
- Costs are accurately determined and documented and can be allocated to specialist departments and/or patients with precision.

For labs, fast sample transport and efficient handling is key:

- The PowerLine™ System ensures fast transport.
- Stations specially developed for laboratories ensure that samples are transported and received with care.
- Integrated, customer-specific laboratory solutions optimize process workflows.

More efficiency in the pharmacy

Ideally, a pneumatic tube system connects all wards and functional departments of a healthcare facility with the pharmacy. This way, medications can be transported to their destinations in system carriers. Since pharmacy employees no longer have to run errands, they can concentrate on their clinical tasks.

Configure connections specific to your needs

We offer tailored solutions that meet individual needs to ensure electronically prescribed medications leave the pharmacy immediately after the prescription is received.

Interface with packaging and dispensing systems

Medications transfer automatically to the carrier and the interface connects with the pneumatic tube system for secure transport of patient-specific medications to the ward.

Chain-Of-Custody solutions for pneumatic tube systems

Swisslog Healthcare Chain-of-Custody applications for health facilities have developed into a complex solution with a major benefit for customers. Its implementation combines both the interaction of staff and technologies as well as operations in diverse processes between the care and specialist departments. Correctly and consistently implemented, the Chain-of-Custody solution increases profitability by lowering process costs while improving process quality at the same time.



Chain-of-Custody provides information on how a carrier transports goods and monitors each individual transport. By identifying, tracking and monitoring operations, technology ensures transport times are improved, e.g. from the pharmacy to the laboratory or from the blood bank to the patient. Finally, the Chain of Custody enables the facility to create seamless, efficient processes.

Swisslog Healthcare vision of the closed loop

Automated solutions for hospital pharmacies optimize medication management and distribution. They ensure that the right medications reach the right patients at the right time.

Integration with the pneumatic tube system for greater efficiency and seamless traceability

Integrating automated solutions allows the seamless connection of employees, technologies and goods for transport at all levels. Combined with an automated solution for the medication management, patient-specific therapies can be transported after acceptance of goods via the pharmacy and ward and delivered to the patient's bed seamlessly.

We deliver medication management solutions that increase efficiency and enhance the patient experience in forward-thinking hospitals and health systems.

We are a leading supplier of solutions and services for medication management, combining both transport and pharmacy automation. In more than 3,000 hospitals and healthcare institutions worldwide we have installed facility-wide transport and pharmacy automation systems. We offer integrated solutions from a single source – from consulting to design, implementation to lifetime customer service.



**Consolidated
Service Center**



**Pharmacy
Automation**



Transport Services



Point-of-Care

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