

## CASE STUDY

# HOSPITAL RECHTS DER ISAR MUNICH, GERMANY



## Implementation of a logistic concept using Swisslog pneumatic tube system.

### The Customer and the Requirements

The hospital rechts der Isar is the university hospital of the Munich Technical University, with over 3,700 employees, devoted to patient care, research and teaching. Around 45,000 inpatients and 160,000 outpatients benefit annually from care at the highest medical standard. With over 31 clinical centers and departments, and more than 1,100 beds, the hospital covers the complete range of modern medicine.

Healthcare organisations are currently facing increasing costs. Therefore, immediate action is essential, especially in optimizing labour costs.

Relieving nursing staff from manual transport creates the opportunity to concentrate their efforts to increase quality assurance in the hospital.

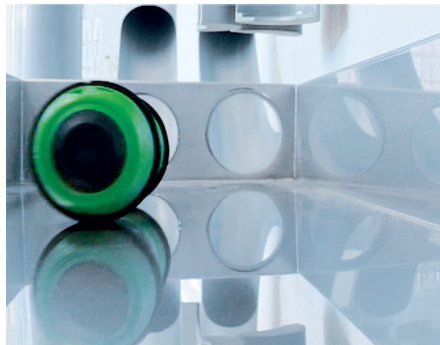
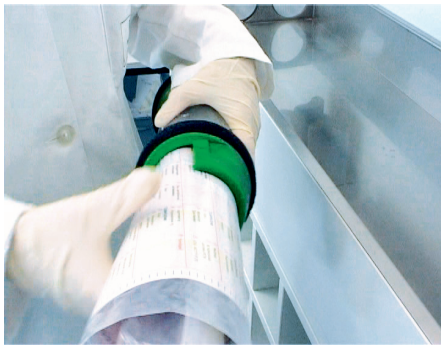
To simultaneously improve the profitability, general in-house process optimization is a constant task within the hospital. At the same time, patients are discharged more quickly, with more efficient treatments. Concepts and solutions for increased efficiency and improved quality are required.

### The Solution

Aim: Cost Reduction  
of Internal  
Logistic Processes

System:	TranspoNet
Tube Length:	5,400 m
Linear Transfer Units:	3
No. of Diverters:	73
No. of Carriers:	1,616
No. of Stations:	178
Tube Diameter:	124 mm
Commissioning:	1998

**swisslog**



### The Solution

Since 1998 the hospital rechts der Isar has been using Swisslog's Airco CC pneumatic tube system. Originally, the system was designed as a one-way system for transports within the laboratories. In addition, a two-way system was in operation for general transports within the hospital. Today, the pneumatic tube system transports laboratory samples and results, as well as accompanying forms and documents. During the hospital building extension construction in 2005, the system was converted to the PC-controlled system TranspoNet with integrated PowerLine technology.

### The Success

In 2005, the Airco CC station technology from 1998 was converted to a TranspoNet system. Thanks to the integration of the new PowerLine technology, transporting goods over long distances is even faster. Laboratory analysis is processed faster, improving quality and reliability of patient care.

### Customer Benefits

The system achieves an outstandingly high transport frequency due to the parallel configuration of both pneumatic tube systems. The laboratory system achieves up to 250 transports per hour and guarantees a very fast availability of the samples in the laboratories.

Empty carriers are returned to the wards via the general system, which automatically serves the stations with the highest carrier deficit.

Additionally, there is the possibility to equip the carriers with a locking mechanism for confidential transports.

The pneumatic tube systems at the hospital rechts der Isar offer relief for hospital staff and logistic processes. It is always available, can be supervised 24/7 via a monitoring software and can send information to the on-call engineers for example via telephone or e-mail messaging.



### Transport Goods

- > Laboratory samples
- > Documents
- > Results
- > Tissue samples
- > Sections
- > Blood products

### Scope of Delivery Swisslog

- > 1998: System Airco CC
- > System extension to include two new laboratories and a new ward block.
- > 2005: System upgrade to the PC-controlled technology TranspoNet, which allows an even higher transport frequency.
- > Introduction of a coloured-carrier coding-system as a customer-tailored solution for allocated transports to the connected laboratories.

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