

CASE STUDY

NIKIFOROV RUSSIAN CENTER OF EMERGENCY AND RADIATION MEDICINE ST. PETERSBURG, RUSSIA



Separation of Transport Processes for Clean and Dirty Items with MultiCar to Improve Flexibility and Infection Control

The Customer and the Requirements

The Solution

System:	MultiCar
Track length:	17 m per shaft
No. of stations:	8
No. of vehicles:	2
Transport lines:	1 clean 1 dirty
Commissioning:	2012

Application of modern technology with fully automated charging, transport, and discharging of washable boxes in different colors; strong system separation and optimal maintainability provide the highest transport quality to the hospital.

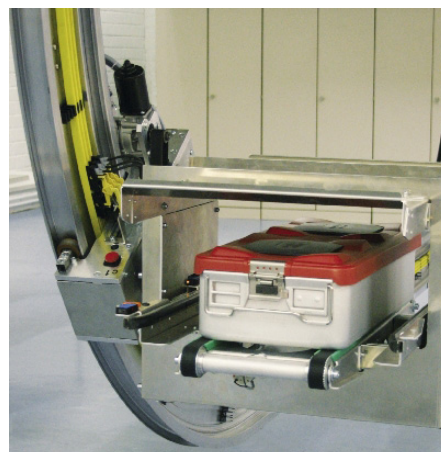
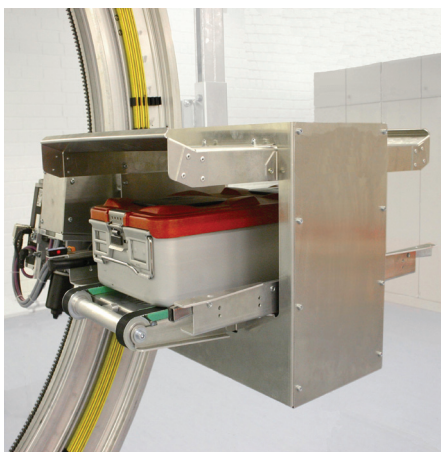
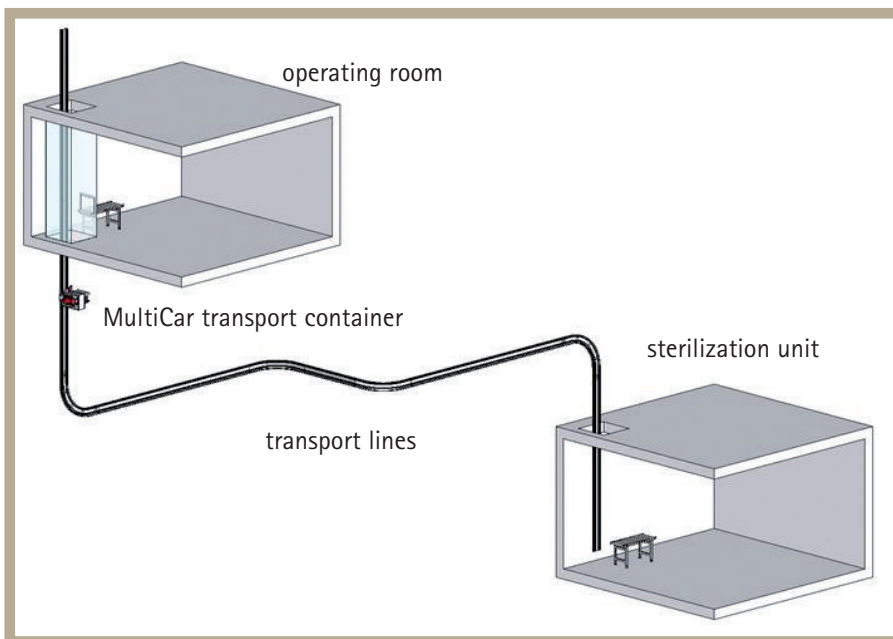
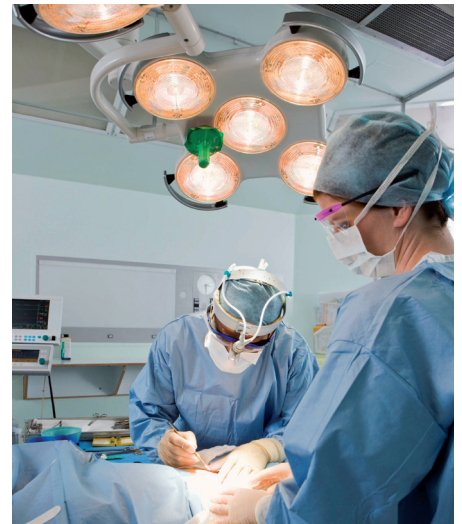
The Federal State Health Institution "All-Russian Center of Emergency and Radiation Medicine" of EMERCOM in Russia was established in 1992 in St. Petersburg. It has been appointed with the organization and administration of medical care to the participants of clean-up operations after the Chernobyl nuclear disaster and to those resettled from radioactively contaminated areas in Russia. NRCERM thus holds the federal license for health-care activities and provides diagnostic, medical, and psychotherapeutic assistance in the inpatient and outpatient setting.

Therefore a solution was needed for the automated transportation of sterile and dirty items in two separate fully automated transportation systems, to be used in a limited building structure between central sterilization and surgical wards.

As the surgical department is involved, multi-shift operations of the system were required, as well as easy identification of the different transported goods in order to comply with all rules and regulations for work safety and hygienic demands.

The Solution

Swisslog realized a safe and reliable transportation system for clean and dirty items with a MultiCar between operating rooms and central sterilization. On the clean side, sterilized instruments and material are delivered safely and reliably to the operating rooms for scheduled surgeries, but also for emergencies – all of which demand the fast and accurate distribution of instruments. On the dirty side of the process, removal of used instruments and material is performed safely and quickly to prevent cross contamination and avoid any risk for personnel and patients.



Benefits of the Solution

Automated transportation reduces circulation time while providing constant sterile goods availability. With continuous circulation, the inventory of sterile goods can be reduced, considerably reducing costs.

- > Higher availability of surgical instruments through quicker cycle times
- > Increase of operational safety through reduction of manual transport
- > Elimination of cross contamination thanks to separated transportation lines
- > Automated loading and unloading
- > 24/7 availability of the system
- > More transparency regarding use of the material
- > Easy cleaning of transport containers
- > Containers from different manufacturers can be used
- > Payload up to 25 kg

Swisslog Telelift GmbH
Siemensstraße 1
82178 Puchheim
Germany

Phone: +49 89 800 01-0
Fax: +49 89 800 01-111
telelift.de@swisslog.com
www.swisslog.com