



TRANSCAR AUTOMATIC GUIDED VEHICLE (AGV) SYSTEMS

HEALTHCARE
SOLUTIONS



TransCar Automatic Guided Vehicle Systems



Swisslog is a leading global provider of Automatic Guided Vehicles (AGV) systems to hospitals. Swisslog's TransCar AGV systems safely, accurately and continuously transport a wide variety of materials in carts throughout hospitals, reducing labor, injuries and damage.

Swisslog TransCar AGV systems provide healthcare facilities with:

- > Safe operation around people
- > User-friendly dispatch and control techniques
- > Reduced manual labor- offering efficient and reliable deliveries 24/7
- > Reduced injury by eliminating manual pushing of carts
- > Reduced facility and payload damage through controlled movement
- > Durable, long-life performance with flexibility to expand

As a total healthcare logistics provider, Swisslog is dedicated to providing:

- > Ongoing innovations in system design
- > Non-disruptive system installation and start-up
- > Unparalleled user and maintenance training
- > Complete customer service and technical support network

TransCar vehicles are ideally suited for moving routine and on-demand carts between support service departments including kitchens, docks and warehouses, and the patient-support areas including nursing units, ER and OR areas through corridors, elevators, tunnels and bridges.

TransCar's guidance system is flexible and easily updated for system expansion or navigation changes via wireless download.



System Management

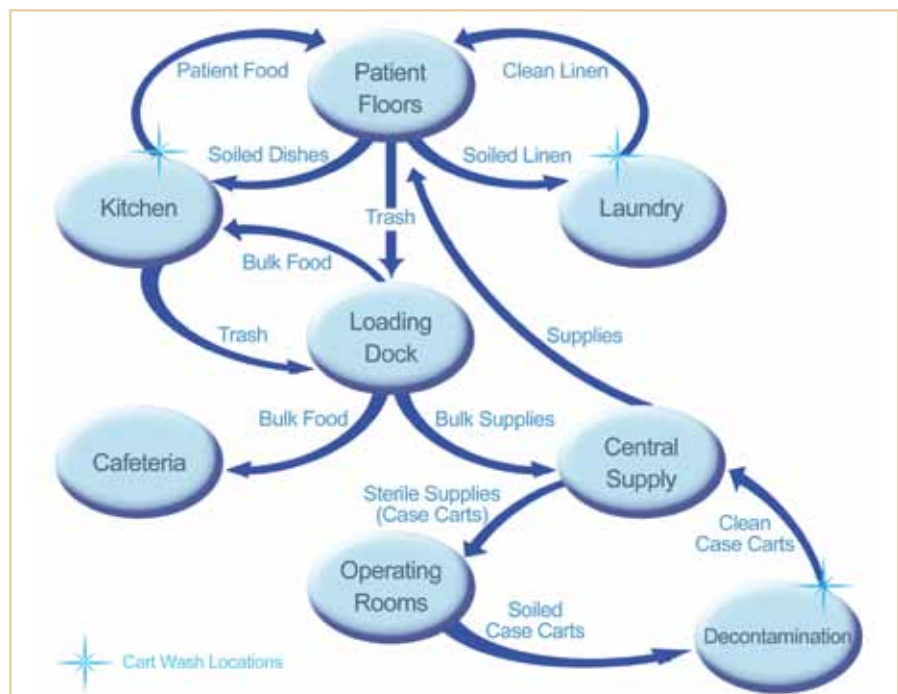
TransCar Management System (TCMS2) software controls all jobs, vehicles, elevators, doors and chargers 24/7.

TransCar Vehicles

- > Laser guided
- > 1,000 lb. capacity (cart + payload)
- > Up to 300 feet per minute speed
- > Electric lift deck
- > Bi-directional travel
- > Cart orientation control

Fully Automated

Carts are dispatched through use of touch screens or RFID tags. Then they are lifted, transported and dropped off automatically.



Carts for Hospital Materials

A wide variety of carts are available for departmental use throughout the hospital including specialized food, supply, trash, linen, and recycle carts, as well as general purpose carts.



Existing Carts

Existing hospital carts can often be modified to meet the requirements for use with the TransCar AGV system.



System Integration

Swisslog's AGV can be fully integrated with tow-through cart washers/dryers as well as automatic trash or soiled linen dumping systems.

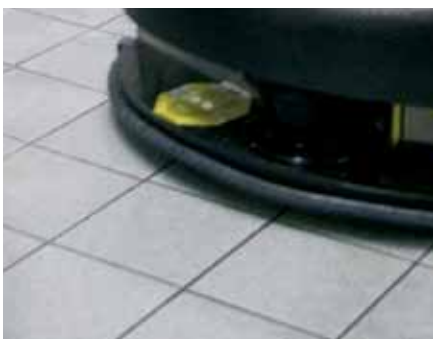
TransCar Vehicle Safety

Swisslog's automatic guided vehicles are designed with exceptional safety features offering intelligent human and obstacle interaction.

TransCar's onboard flashing lights, turn signals and audible voice messages provide visual and audible alerts to the vehicle's presence and pending actions.



The TransCar laser navigation identifies obstacles in or near the vehicle path. TransCar will automatically slow down and stop for obstacles. Emergency stop buttons, additional sensors and perimeter tape switches also stop vehicle travel.

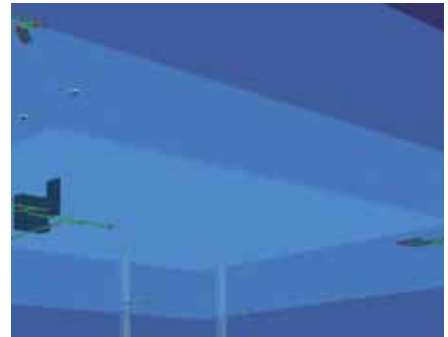


Beacon Interface

TransCar activates off-board lights, beacons and sounds to alert people of approaching traffic. Fire door and elevator interfaces ensure safe operation.

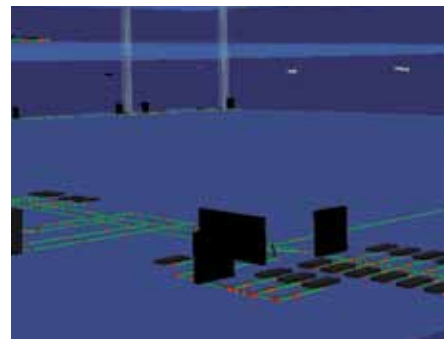
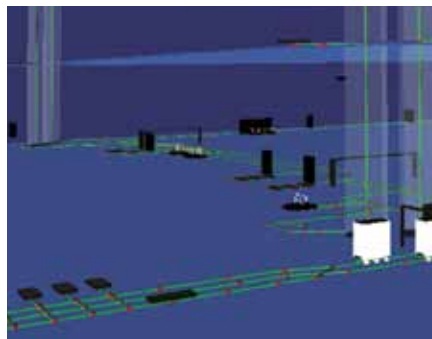
TransCar Management System Software

TransCar Management System (TCMS2) software controls vehicle operation through a central server.



User Interface

Clients can display 3D system status at multiple locations.



Cart destinations entered by touch screen or by RFID tag are prioritized by cart type and time. Vehicles are assigned to jobs based on priority, vehicle location and status. All system activity including vehicle, elevator and cart movement is recorded.



TransCar Automatic Guided Vehicle System Support

As a total healthcare provider, Swisslog is dedicated to offering comprehensive automatic guided vehicle system support. The design department, quality assurance, applications group, system design analysis and project management team all contribute to the most advanced, tested and successful ideas for hospital material transport.



Installation and Start-Up

The best practices are applied to ensure minimal disruption to hospitals during installation operations.

Customer Training

- > Comprehensive, facility-wide training prior to start-up
- > Onsite hands-on operations staff training
- > "Train the Trainer" programs

Customer Support


- > Customer support team of 100+ ensures fast, efficient response
- > Technical support available remotely by phone or internet
- > After-hours customer support - available 24 hours a day
- > In-depth Preventative Maintenance programs
- > E-documentation for all aspects of system and customer support





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