

SWISSLOG SPECIAL APPLICATIONS

AUTOMATIC GUIDED VEHICLE (AGV) SYSTEM FOR MEDICATION TRANSPORT



Swisslog's robotic system provides monitored and safe delivery of medications by integrating secure-access medication carts manufactured by Lionville. Transporting these medication carts using robots relieve pharmacy personnel of time consuming manual transport tasks.

Secure and Automated Medication Delivery

Lionville medication carts are securely mounted to the AGV system vehicle. The medication carts allow single-key access to unlock all cart drawers for central pharmacy loading. Once medications are loaded into the locking drawers, the robotic vehicle is dispatched to the desired locations.

Medication drawers are managed by Lionville's Lock Alert VI software controls—authoring access by entering a PIN onto a keypad, or by using optional card swipe technology. For added security, dual locking drawers are available for the dispensing of narcotics. An audit trail is created onboard for retrieval of access information.

Safe Navigation

AGV robots are bidirectional and navigate the hospital without markers by using virtual paths. The routes are easily configured and downloaded to each vehicle via the system control center. The system interfaces with fire doors, elevators, lights, sensors and more.

Safety features include:

- > **Dual Range Fail-Safe Obstacle Detection** - Located on each end of the vehicle—providing safe maneuvering in occupied areas.
- > **Alerts** - Voice annunciations and flashing lights signal prior to changes in motion.
- > **E-Stop Button** - Manual emergency stop buttons are located on each end of the vehicle.
- > **Fire Control Interface** - Fire door and elevator access.



Low Maintenance

Swisslog's robotic vehicles conveniently and automatically charge the batteries at the loading station. Automatic rapid charging allows 24-hour vehicle availability.

For periodic vehicle service, the medication carts are removed from the vehicle using the electric onboard lift. The medication cart wheels are then attached for temporary removal of the cart.

Expandable

The AGV system can be expanded for use moving other materials including automatic pick-up and drop-off of carts for daily medications, linens, meals, supplies and trash.



More Information

For more information on the AGV system, see our Automatic Guided Vehicle System brochure (AGV-100).

For information on Lionville medication carts, please visit their website at: www.lionville.com.

Due to ongoing improvement programs, Swisslog reserves the right of production or design change without notice or obligation.

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