

# AGV Automatic Bulk Material Carts Guided Vehicle

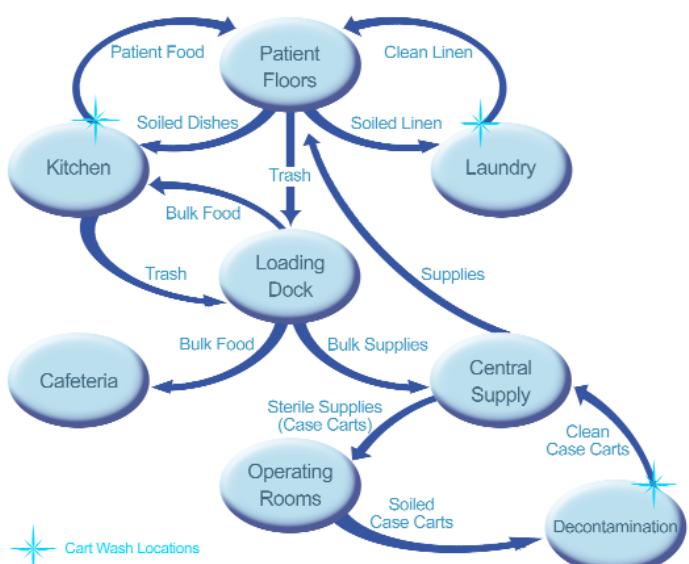
Swisslog understands healthcare material transport and logistics challenges facing hospitals today. Increases in labor costs, inefficiencies, injuries to people, and damaged payloads improve the justification for automating the transport of bulk materials in carts with a robotic TransCar vehicle system.

The TransCar automatic guided vehicle (AGV) system is designed specifically to meet the needs of the hospital environment. Vehicles serve multiple departments throughout the hospital for distribution of bulk food, central/sterile supplies, patient food and nourishments, soiled dishes, clean and soiled linens, trash and regulated medical waste.

As part of the system, Swisslog supplies payload specific carts to meet the unique needs of each department. Carts can be fitted with RFID tags to automatically identify the cart type, input default destinations, and track the activity and timing of individual carts. The AGV system can be supplied with automated cart



dumping stations for trash and linens, as well as an automatic cart washer/dryer for a complete integrated logistics system.



**swisslog**

# AGV Bulk Material Carts

A wide variety of carts are available for departmental uses throughout the hospital. Whether you operate with exchange carts or par level, TransCar can meet the needs of your facility. Your return on investment will increase by moving multiple material types throughout all hours of the day in a total logistics solution.

## Food Carts

Food carts are designed for the specific food service system whether it be room service, hot food tray line or retherm operations allowing the kitchen to deliver meals to patient areas. Food carts are usually dual purpose and used to return soiled dishes to the kitchen. Food carts are either tandem (1/2 size for transport of 2 at a time) or full size depending on your specific needs.



Hot Meal Cart



Interior of Hot Meal Cart



Tandem Carts  
(Transport 1 or 2 at a time)



Cook/Chill - Retherm Cart



Cook/Chill - Retherm Units

## Supply Carts

Enclosed stainless steel case carts are provided with adjustable shelving or totally removable shuttles for transfer onto dollies while inside SPD and OR areas. The shuttle system reduces the quantities of totally enclosed carts and increased operational efficiencies. Case carts are either tandem (1/2 size) or full size depending on your specific needs.



Shuttle System Cart



Sterile Supply Cart

## Trash and Linen Carts

Bin forming carts enable highly efficient transport through conversion from clean deliveries to soiled returns, for linen/laundry or supplies/trash. When en route to clean holding rooms on patient floors, the shelves support the clean materials. Once empty, the shelves are moved into the side position, forming a bin for the return of soiled materials to the dock or laundry. Bin forming carts supplied in wire lattice or fiberglass construction are processed through a cart washer for reuse with clean materials.



Open Style  
Bin-Forming Cart



Fiberglass  
Bin-Forming Cart

## General Purpose Carts

General medical and central supplies, bulk foods, equipment, and pharmacy supplies can be transported in carts equipped with features specific to the materials or using general purpose carts designed to transport multiple materials.



Flatbed Cart



## Existing Carts

Existing carts can often be re-used by removing their casters and placing the cart's body onto a transfer carriage (substructure) which contains the necessary, position magnets and dimensional space for automatic interface with the robotic vehicles.

## Cart Washers/Dryers

Swisslog's AGV system can be fully integrated with tow-through cart washers/dryers. Vehicles automatically deliver carts prepared for washing, and pick them up after drying.



Cart washer

## Automatic Dumping

Options also exist for automatic dumping of trash and/or soiled linen carts with an automatic dumper to further increase the automation level and return on investment.



Dumping Cart

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

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