

Hospital Application



Description



ATLIS Vehicle picking up a cart

FMC Technologies ATLAS (Automated Transport & Logistics Integration System) is the most innovative automated transport system/specifically for the health care industry. The ATLAS is designed to transport everything from dietary and laundry to medical supplies and waste.

ATLAS is designed to pick up, carry and deliver carts from central distribution to the "user areas", and also reverse the process by returning carts from remote areas to central distribution.



ATLAS vehicle transporting a cart

The process begins when an operator loads a cart with material at a designated center. When the cart is fully loaded, the operator moves the cart to a set of detents in the floor, a kind of pushbutton. After the central computer detects that the cart is properly positioned for dispatch, a local terminal prompts the operator to enter the cart destination. The operator is then free to load another cart.

Next, the central computer locates the nearest available vehicle and sends it to pick up the cart. The vehicle is automatically directed under the cart, raises a deck on the vehicle and picks the cart up off the floor for delivery to its destination.

When the vehicle and cart arrive at the destination, the vehicle drives over an empty set of detents, lowers the cart onto the detents, and moves on to its next pickup location. The central computer then alerts the end user of the cart arrival via a local "cart present" light or chime. After the cart is unloaded, the user returns it to the empty detents. The central computer then sends a vehicle to pick up the cart for redeployment from the central distribution area and the cycle is repeated over and over again.

Features

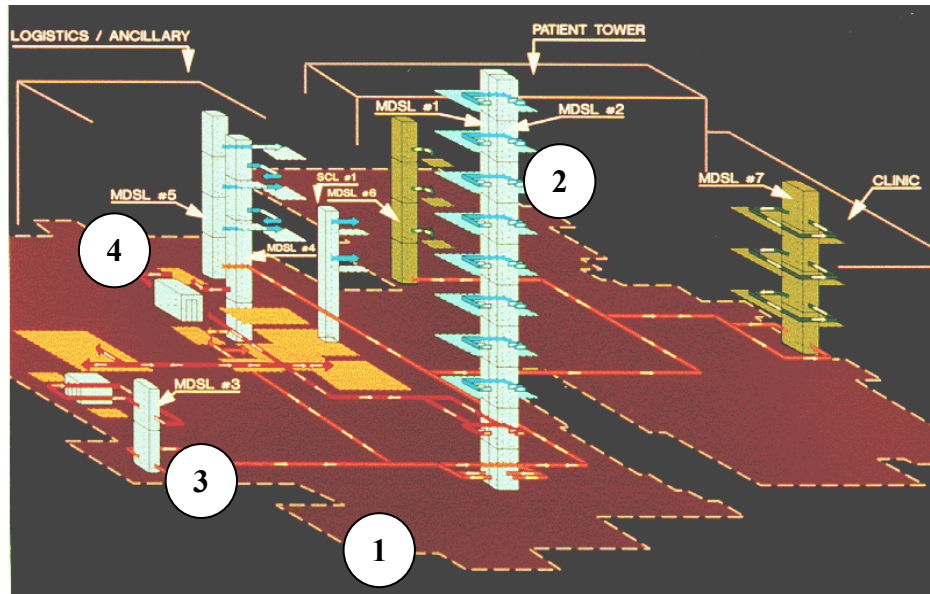
Date Installed:	1991
Vehicle Types:	Unit Load
Number of Vehicles:	23
Application Description:	Material Handling
Industry Description:	Hospital
Host Computer Controls:	DEC MicroVax Duplex System
Guidance Method:	Wire Guided
Load Description:	Hospital Carts Carrying Linen, Surgical Supplies, & Trash

Benefits

- Reduced labor and inventory costs
- Improved personnel safety
- Improved inventory tracking
- Timely delivery of materials
- Eliminate time wasted looking for supplies

FMC Technologies

- 1 AGVs travel underground for safety and speed.
- 2 AGVs enter and leave elevators automatically, one side isolated for clean items and the opposite side for soiled.
- 3 AGVs Deliver and Pick up at Trash Dock and Linen Dock.
- 4 AGVs Deliver and Pick up at Dietary three times a day for 800 bed facility.



System Overview

2 DEC MicroVax Host Computers with Automatic Failover Capability

- Remote access modem support
- Operator graphics screen
- System diagnostics

1 Cyplex communications network:

- Wire guidance even in elevators
- Multiple panels for easier diagnostics

1 I/O Network to monitor elevator doors & floor detents

1 Data Terminal Network to send & receive orders

Safety Features

Horn, Flashing Strobes
 2 Emergency Stop Buttons
 Front and Rear Bumpers
 Front Infrared Sensors

Vehicle Specifications

Drive Power	Electric
Operating Voltage	24 VDC
Battery Type	NiCad
Steering	Drive/Steer
Brakes	Electromagnetic
Lift Power	Electric Jack
Lift Capacity	450 kg (1000lbs)
Travel	Bi-directional
Travel Speed	1.0m/s (185 f.p.m)
Control	Automatic – Wire Guided Manual – Pendant

FMC Technologies
 Automated Systems
 400 Highpoint Drive
 Chalfont, PA 18914
 P: 215-822-4300
 F: 215-822-4553

FMC Europe NV
 Breedstraat, 3, B-9100
 Sint-Niklaas, Belgium
 P: +32 3 78 01 336
 F: + 32 3 77 77 955

FMC Europe, S.A. 106bd Heloise
 Les Harmoniques, BP 55
 95101 Argenteuil Cedex, France
 P : + 331 39 96 46 73
 F : + 331 39 96 46 74

FMC Technologies, Ltd.
 Unit VI Winchester Avenue, Blaby Industrial Park
 Blaby, Leicestershire, LE8 4GZ, United Kingdom
 P : + 44 116 2642250
 F : + 44 116 2642279

www.fmcsags.com