

Automated Pallet & Cart Transport



SGV drops off load at conveyor

Features

Location:	Wath upon Dearne, England
Number of Vehicles:	16
Vehicle Type:	Flatbed Lift Deck
Load Description:	Product Pallets & Recycle Carts
Industry Description:	Retail
Guidance Method:	Laser Guidance
Vehicle Capacity:	500 kg
SGV Host Controls:	SGV Manager – Windows XP
Battery Charging Method:	Opportunity Charging

Benefits

- Significantly reduce pallet and product damage
- Track inventory throughout the system
- Flexible solution for plant's changing production demands
- Safe, reliable delivery of pallets
- Exceeded financial targets generating a 37% ROI based on labor savings

System Description

The SGV System operates 24/7 and facilitates the movement of plastic and cardboard recyclables within a retail distribution center. The SGVs are controlled by SGV Manager software, which sends pickup and delivery requests by communicating with the facility's network.

The plant's WMS triggers all order requests for each location, and SGV Manager dispatches vehicles to these pickup points. As the SGVs complete tasks, SGV Manager monitors vehicle traffic in order to optimize vehicle flow and prevent deadlocks or collisions. It also tracks the location of each SGV within the facility.

The system operates as a "taxi" system, as the SGVs deliver requested loads to/from the facility's system. The WMS controls the 4,000 pick pallet locations, the 200 AGV drop off locations, the 40 pallet packing stations, and the 150 buffer locations. SGV Manager interfaces with the WMS and provides real-time updates to the system.

16 flatbed lift deck AGVs perform these tasks. Each SGV contains one battery required for on-board charging.



Picking up empty pallet at Pickup Location



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