



Automatic Guided Vehicle System Improves Production Efficiency

Features and Benefits

Reduced Labor Costs

Improved Safety

Reduce Pallet and Product Damage

Improved Production Efficiency

Flexible Solution for Plants Changing Production Demands

Safe, Reliable & Timely Delivery of Finished Goods

Industry Group: Automatic Guided Vehicle Systems (AGVS)



The AGV Manager software controls and monitors the entire AGV system ensuring efficient material transport

A major pharmaceutical company needed a flexible solution to transport finished product from the production lines to the stretch wrapper in the packaging area of their production plant. Finished product was being transported manually and an automated system was needed in order to improve production efficiency and reduce costs.

An Automatic Guided Vehicle System (AGVS) was successfully implemented to automate movement of finished product pallets from six production lines to eight flow racks adjacent to the stretch wrapper. The system includes two pantograph reach vehicles which operate 24/7.

All material movement requests are made via push button panels located at each production line. Once a finished goods pallet is ready for pick-up at the production lines an operator presses the appropriate push button to request removal of the pallet. An AGV is assigned to pick up the finished goods pallet and delivers it to an available flow rack. Forklift operators then take the finished goods pallets from the flow racks and place them on to the stretch

wrapper.

The AGV Manager software is responsible for controlling and monitoring the entire AGV system and ensures efficient material movement throughout the facility. All material movement requests are processed by the AGV Manager software and then assigned to the appropriate AGV.

The AGV Manager also monitors battery status and sends the vehicles to a charger as needed. The system is equipped with opportunity charging which maintains the charge level of the batteries during 24/7 operation without requiring manual swap-outs.



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