



Automated Guided Vehicle System Improves Efficiency

Features and 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

Industry Group: Automatic Guided Vehicle Systems (AGVS)



Outtrigger AGVs with hydraulic lift stacking pallets of an industrial manufacturing company

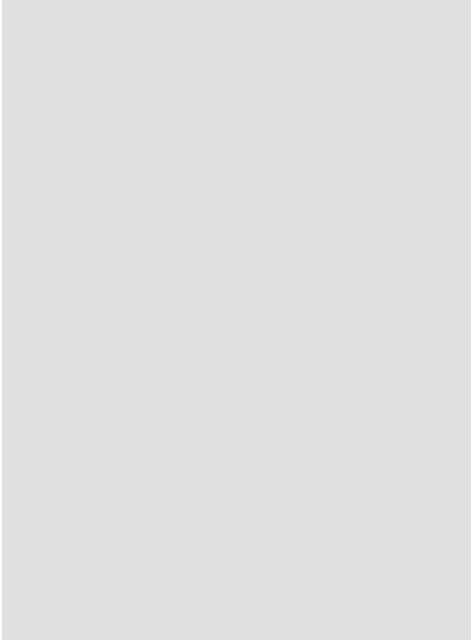
This AGV system operates 20 hours per day, five days per week and facilitates the transport of pallets of product between dock lanes, narrow aisle rack storage, and stretch wrapper in/out. The system consists of 8 outtrigger hydraulic lift AGVs, as well as system computers and software to monitor and interface with existing equipment.

The host computer communicates with the vehicle control software. In order to initiate AGV movements, the WMS supplies pickup locations in specific storage lanes as well as a location for pallet drop within the rack storage after the AGV has scanned the pallet barcodes. Once the AGV management software receives these requests, it dispatches vehicles to fulfill the orders.

The AGV system retrieves full pallets from the dock inbound lanes and places them into the rack storage area as directed by the SAP-based WMS. The AGV system also retrieves full pallets from the rack storage areas and delivers them to the stretch wrapper inbound conveyor, again, as directed by the host computer.

The vehicle control system monitors battery levels of each AGV in the fleet and sends them to the battery charging area if the battery level falls below a predetermined percentage.

These AGVs not only improve efficiency in the facility's automated retrieval and storage system, but they also reduce labor costs, improve safety, eliminate material handling related product and facility damage, and increase productivity.



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