



Automated Guided Vehicle System Increase Throughput

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

Operates 24 hours a day, 7 days a week

Industry Group: Automatic Guided Vehicle Systems (AGVS)



Laser-guided forklift AGV transporting full rack of goods around factory

This AGV System operates 24/7 and facilitates the transport of pallets and material carts between a material preparation center, converting lines, and a scrap handling area. The AGV control system monitors the AGVs and communicates with the RTCIS system and plant control system to move pallets and material carts.

A factory operator conveys to the RTCIS a pick/drop request. The converting line operators prepare a load for pick up and place the load at a pick-up location for collection and delivery by the AGV. The RTCIS informs the AGV control system of the pallet stack/rack/cart in a specific pick-up location in the converting line area and identifies the converting line requesting the product. The destination is either the scrap area or the prep area.

When a cart is delivered to the scrap area, the RTCIS creates a pick request for an empty cart to be returned to the converting line, where the cart had been removed.

The AGVs are equipped with a fork positioner attachment, which allows them to align perfectly with fork slots on pallets and material carts. This AGV system consists of one (1) Forked Counterbalance

that has the lifting capacity of 1500 kg while the all the other 14 have the lifting capacity of 750 kg.

Since installing the AGV system in their facility, this provider of fast-moving consumer goods (FMCG) has seen its throughput improve. Now that AGVs provide the movement of materials to scrap and prep areas, plant employees can focus on more important tasks, optimizing the amount of finished goods the warehouse creates.



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