



Linking Packaging & Palletizing Common Application for AGVs

Features and Benefits

Less Product Damage Due to Reduction in Handling

Reduced Labor Costs

Increased Safety

Improved Production Efficiency By Eliminating Palletizer Shutdowns

No Plant Interruptions During Installation

Consistent Product Movement Ensures Continuous Production and Palletizer Operation

Industry Group: Automatic Guided Vehicle Systems (AGVS)



Linking packaging and palletizing lines is a common application for guided vehicles

At a large paper manufacturer, roller deck automatic guided vehicles (AGVs) pick up loads from the seven (7) packaging lines and transport them to any one of three stretch-wrap in-feed conveyors based on availability.

The new AGV system interfaces with a PLC network via RS-Linx to monitor digital I/O for order generation.

The AGV Server, in communication with the PLC network, instructs the AGV to transport loads accordingly.

The AGV Road System is designed with spurs and bypasses to maximize vehicle traffic efficiency and number of deliveries per hour.

Additionally, a particular stretch-wrap conveyor can be designated for each palletizer, providing added flexibility in the event a stretch-wrap line requires maintenance or poly re-supply.

The AGVs are laser guided and have laser bumpers for obstacle detection. They use conventional flooded leadacid batteries, which are automatically

recharged at four (4) locations using advanced smart-charger technology.

Using guided vehicles ensures consistent product movement, as well as continuous production and palletizer operation at the paper manufacturing plant.



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