Achieving efficiency through automated AGV integration

HCLTech helped a leading logistics company enhance its operations

The client is the world's leading logistics company with 380,000 people in over 220 countries and territories working every day to help cross borders, reach new markets and grow business with around 1.8 billion parcels delivered every year.

The Objective:

To ensure that all movement of product be system driven including the exception moves to and from QC, Reject, Rework areas. Also, movement of empty pallets should be back to the receiving area.

The Challenge:

To enable serialization through the receiving process and automate it in order to reduce manual dependencies and costs.

The Solution:

HCLTech along with MAX AGV introduced a fleet of 8 FX20C AGVs to replace the various current manned MHE trucks used over two shifts. AGV's are placed into the operation in order to transport stock arriving at site. Once stock has been loaded onto in house pallets this is sent to the inbound high bay conveyors for product held in the automated high bay solution. All outbound product called from the automated high bay, are fed to 1 of 3 conveyors whereby AGV's will be system directed to collect the pallets and take them to designated marshalling lanes.

The implementation, configuration and integration of MAX AGV with BY WMS. Receiving the ASN, processing QA and putaway on the AGV feed in conveyor for automated putaway. Within the receiving process, serialization was enabled. Full pallets are retrieved by the AGV and deposited to the conveyor from which an operator will transfer the pallet to a marshalling area. Automation solution was implemented in Red Prairie 2010.

The Impact:

The solution enables automated handling of pallets and therefore reduces manual effort which is translated to a business cost efficiency. Other soft side effects are less damages to the pallets, rack and building by operators.

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