

Modernized Conveyor for Increased Productivity

TOP SHELF
INTEGRATED SOLUTIONS

Customer: Worlds Leading Mfg. of Storage Equipment in Healthcare

Increase Productivity

*Sales · Parts · Rental · Service
Leasing · Fleet Management*

KEY PROJECT POINTS

*Field Survey – Layout Design – Product
Rate Analysis – Capacity Rating Confirmation
Equipment Evaluation & Recommendation -
Production & Delivery Scheduling*

Executive Summary

Top Shelf to increase productivity in UPS and FedEx shipping area from current floor pallet staging area to a modernized powered conveyor system. The system directs packages into UPS and FedEx scan table work cells and then releases packages directly into UPS or FedEx trailers sitting in dock doors.

Challenges

Instead of staging pallets in the current mode, pickers would load completed orders and pick tickets onto the new conveyors, which lead to the parcel shipping area.

Solution

The scanning and labeling process remains manual at the packing benches, which are at the end of the 45-foot conveyor paths, in this layout. The scanning and labeling process also remains manual at this point. The conveyor paths lead to the dock doors where parcels will be loaded on the UPS and FedEx Trucks. Top Shelf installed zoned, zero pressure accumulation style conveyors, featuring Hytrol's patented EZ-Logic accumulation system. The system has an integral feature called "Dynamic Zone Allocation", which recognizes product of different lengths and automatically adjusts zone lengths to efficiently store product. This is achieved by grouping multiple zones for longer product, and segregating them for shorter product.



Hytrol's Patented EZ-Logic Accumulation System

The Result, Return on Investment and Future Plans

Top Shelf provided a 38% increase in productivity for the company along with a much more modernized workspace.



Dynamic Zone Allocation

PROJET SYSTEM SPECIFICATIONS

Floor space taken for main conveyor section is approximately 14'-8" x 45'-0". Cell includes:

3 ea. 45'-0" x 42' OAW Model 190-ABEZ Conveyor lanes - 2 ea. Telescoping Gravity Roller Dock Conveyors, 12'-0" Retracted/30'-0' OAL extended x 42" OAW, with floor supports and casters - 1 ea. Packing Station with Scale - Control panel with PLC, contactors, E-Stops circuits, etc. Also, Top Shelf includes control design and programming.