

### CASE STUDY



*Alba's heavy-duty pallet handling conveyor integrates perfectly with most automated wrapping applications.*



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### Overview

Our systems integrator partner, [Innovative Conveyor Concepts](#), in Grand Prairie, Texas worked with a local manufacturer of spooled wire to provide pallet stretch wrap lines with quality control (QC) inspection stations and a rework line.

The pallets (weighing up to 4,000 pounds) are loaded via forklift on the in-feed conveyor with pallet loading guides. Pallets travel down the CDLR conveyor to a pair of QC turntables that allow the operators to rotate the pallets 360 degrees and beyond for inspection.

Once QC is complete, the turntable returns to the home position and discharges the pallet to either stretch wrapping or a rework line. Pallets are wrapped both vertically and horizontally and accumulate at the discharge end for forklift removal.

The CDLR conveyors and turntables are controlled with variable frequency drives with EtherNet/IP to accommodate gentle handling prior to stretch wrapping. An intuitive user interface allows the operator greater flexibility for both automated manufacturing and distribution applications. Panel and controls were supplied by Innovative Conveyor Concepts.

By integrating Alba heavy-duty CDLR conveyor and turntables in the configuration shown, the manufacturer gained efficiency and throughput. Quality control was enhanced, and operators experienced increased ergonomics and safety. With inspections now in-line, defects can be easily identified and rerouted for corrective action ensuring product quality and safety before shipping.

## THE INDUSTRY'S PREMIER PROVIDER OF HEAVY-DUTY PALLET HANDLING CONVEYOR SYSTEMS



### Challenge

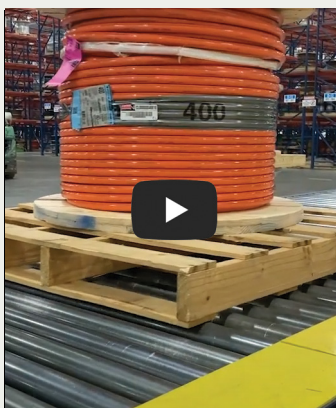
Quality Control issues with spooled wire. Manufacturer needed a more effective way to inspect stations and divert pallets that needed rework.

### Background

01. Pallets (weighing up to 4,000 pounds), loaded via forklift on the in-feed conveyor with pallet loading guides. Pallets travel down the CDLR conveyor to a pair of QC turntables. Operators rotate pallets 360 degrees and beyond for inspection.
02. After QC, turntable returns to home position and discharges pallet to stretch wrapping or a rework line. Pallets wrapped both vertically and horizontally and accumulate at the discharge end for forklift removal.
03. CDLR conveyors and turntables controlled with variable frequency drives with EtherNet/IP to accommodate gentle handling prior to stretch wrapping. Intuitive user interface allows operator greater flexibility for both automated manufacturing and distribution applications. Panel and controls were supplied by [Innovative Conveyor Concepts](#).

### Solution

01. New configuration, provided manufacturer gained efficiency and throughput.
02. Enhanced Quality Control (QC)
03. Increased ergonomics and safety for operators.
04. In-line, defects readily identified, rerouted for corrective action ensuring product quality and safety before shipping.



### Value-Added Features

- All Conveyors Shipped Fully Assembled for Easy Install
- End Stops with Fork Truck Cut-outs
- Fork Truck Pallet Loading Guides
- Fork Truck Barriers

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