

✕ Racers, Start Your Engines!

Auto racing or automobile racing is one of the most well-known competitions in Motorsport. Annually, auto racing in the U.S. and around the world attracts millions of live-event spectators and household viewers. Team sponsors smartly capitalize on viewership to sell and market their products. The global market for Motorsport, which was predicted to be worth \$4.8 billion in 2021, is expected to expand to \$7.8 billion by 2026.

One of these sponsors, who manufactures a line of lubricant products, partnered with [Equipment Depot | EQSolutions](#) on a conveyance project. At one of their distribution facilities, they needed to accumulate full pallet loads of product via several inbound receiving lines as pallet

loads were incoming from another building on their premises.

Three distinct types of pallets needed to be staged on conveyor lanes for AGV (Automated Guided Vehicle) pick-up at the discharge ends. Pallet loads (up to 2,500 lb.) would be dropped off by fork truck on the conveyor lanes' infeed ends. After staging and pick-up, AGVs would deliver the pallets to racking for storage.



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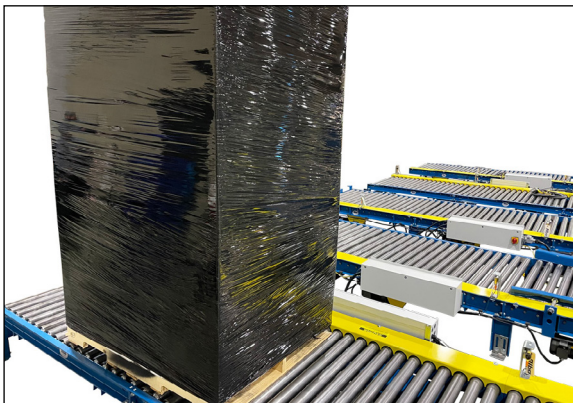
“The four-lane system was complete in just 2-1/2 days! We’re so surprised how quick the install was and honestly it could not have gone any smoother.”

- Customer”

EQSOLUTIONS

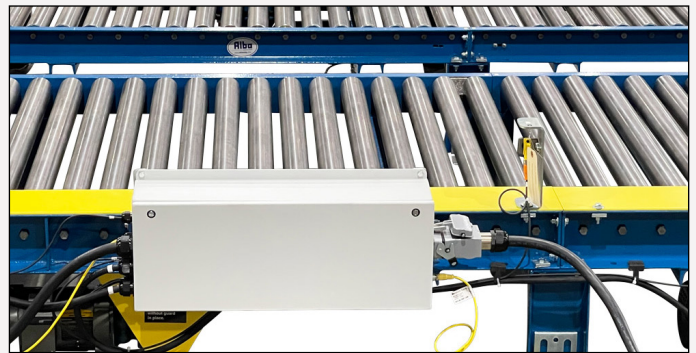
Equipment Depot was especially excited to use Alba's MZPA conveyor controls to see how this truly plug and play system would streamline their installation, time, and costs.

The end user had a total of six (6) lanes they needed to implement, but only four (4) of those lanes were bought at the onset. Each lane needed to accumulate up to twelve (12) pallets in queue and be ready for AGV pick-up. Alba's Motorized Zero Pressure Accumulation (MZPA) conveyor was the right fit for this application. The MZPA conveyors are individually motorized Chain Driven Live Roller (CDLR) conveyor zones that are controlled through a series of Programmable Logic Controller (PLC) based, onboard, conveyor-mounted control boxes.



Alba shipped all the sections pre-assembled with leg supports making it a quick truck-to-site installation. Equipment Depot collaborated diligently with Alba and the end user to provide a solid solution and a means to facilitate conveyance in a simple manner that was easy to install, but also very reliable and rock solid.

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Alba used 3-1/4" roller centers because the pallets were traveling the hard way (meaning the bottom boards were oriented parallel to rollers) and would convey effectively on a tighter roller center. Each zone has a single photo-eye to sense if product is present. The fork truck drop-off zone and the AGV pick-up zone were also outfitted with an ultrasonic sensor. It detected vehicle interface and would automatically start or delay conveyor movement within the Alba programming based on where those vehicles were and the pallets' location within those zones.

Each zone's photo-eye, sensors, and motors are wired via a Quick Disconnect (QD) cable back to the control box. The control boxes can control up to four conveyor zones. Each line had multiple control boxes that were wired via QD cables to connect each box together. One (1) 460-volt power drop was supplied to each lane of conveyor by Equipment Depot in the field.

All conveyor lanes were fully tested and ran automatically in Alba's facility prior to shipment to ensure flawless operation. Alba shipped all lanes in individual sections after rolling the corresponding QD cables back up to each control box for ease of shipping. This made it remarkably simple for the installer to unroll and plug each cable back in to the right control boxes in the field.