

# Conveyor System Integration

REB Storage Systems International

There are a variety of conveyor system options available for your warehouse. The general purpose of a conveyor system is to move products from point A to point B. When considering what type of conveyor system will best suit your needs, you must understand what you need to happen before the product reaches point B. This can include diverting products to different lanes, holding products in a queue, and retrieving products from an upper mezzanine level to the ground level.

REB specializes in the design and implementation of conveyor systems for a variety of industries. We will work closely with your team to develop innovative solutions to your unique needs. Our engineers will provide system layouts along with controls documentation so that you can be assured the system will achieve the desired outcome.

## Available Conveyor System Options: Transportation Conveyor

Transportation Conveyors can be used for a variety of applications from lightweight items that vary in size to heavier full-pallet loads. Options are available to accommodate requirements such as desired speed and product handling procedures.



### Types Of Transportation Conveyors:



**Gravity:** Pitched so that gravity can move product from one point to the next or allow product to be moved manually down the line.



**Belt:** Uses pulleys supported by rollers to move materials at a set speed on an incline or decline.



**Live Roller:** Applies power to either some or all of the rollers to move products from one point to the next.

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## Available Conveyor System Options: Accumulation Conveyors

Accumulation conveyors allow loads to accumulate when necessary to allow time for equipment or other material handling resources to become available down the line. Once these resources become available, the system gives a signal to release the next queue of products.



### Types Of Accumulation Conveyors:



**Zero Pressure:** Allow for light contact between products when the system signals that queue to accumulate.



**Zero Contact:** Leaves space between products when the system signals a queue to accumulate by dividing the conveyor into zones.



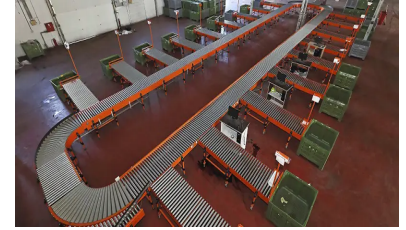
**Minimum Contact:** Maintains a light but constant drive force on products waiting in accumulation.

## Available Conveyor System Options: Sortation Conveyors

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Sortation conveyors are used to direct products from one conveyor line to another. These are tailored to each operation in order to properly identify, track and transport products to expedite the order fulfillment process.

These conveyors are best suited for high throughput operations that require products to flow to numerous locations. The type of sorter which is ideal for your application will depend on the size and weight of your product and the required throughput.



**Shoe Sorter:** Shoe sorter support products on tubes or slats, and a “shoe” positively diverts product to either side of the sorter by sliding across the tubes or slats. These high speed sorters can exceed rates of over 250 cartons per minute.

Due to this smooth, gentle sortation, these conveyors are ideal for sorting fragile product. It is also ideal for operations in which products vary in size and weight.

**Pop-up-Wheel Sorters:** Pop-wheel conveyors utilize a belt conveyor with added rows of angled wheels at divert areas. These wheels pop-up in order to direct each load to its required route.

Pop-up-wheel sorters provides sorter lengths that are unlimited, with rates that can exceed 80 cartons per minute. Since good friction between the product and wheels is required, carton quality and product type must be factored when considering this technology.

**Right Angle Transfers:** A right angle transfer conveyor utilizes a transfer head to push the product off a conveyor onto a perpendicular or parallel conveyor. Right angle transfer conveyors are ideal for pallet applications, transfer of product onto non-power conveyor and transfer of product onto parallel conveyors when only one device is desired.

**Arm or Pusher Style Sorters:** Pusher sortation conveyors divert products onto chutes that are 90-degrees from the sorting conveyor at rates up to 120 items per minute. Pusher conveyors often utilize a modular plastic belt with a pusher mechanism. As the product moves in front of the divert lane, the pusher extends to quickly send the product down the desired divert lane.

Pusher sortation conveyors are ideal for sorting small, irregular shaped items that can be difficult to transport on other types of sortation conveyors.

**Cross-Belt Sorters:** Cross-belt sorters are high speed loop sorters that utilize a series of small individual belted trays which are activated when an item needs to divert off of one conveyor onto another at a 90-degree angle. The configuration of the cross belt sorter can either be in a straight line or in a loop. These sorters can process from 60-500 parts per minute.

**Tilt-Tray Sorters:** The tilt tray sorter (also referred to as a loop sorter) is a high speed, continuous loop conveyor that sorts a variety of mixed shaped items at the same time. These conveyors utilize a tilting a tray at divert points to slide each item onto an appropriate chute.

Tilt tray sorters consolidate orders for shipment and process returned products. They are ideal for items that are able to flow off the tray by gravity such as totes and cartons.

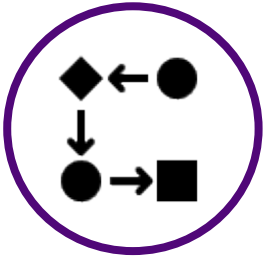
## Optimize Your Pick Module with REB's Proven Process

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Your account executive will gain a thorough understanding of your operation. This includes number and types of SKUs, available space, throughput requirements, and current material handling methods used.

Your account executive will then educate you on material handling system options that make sense for your operation.



Based on your feedback, REB engineers will develop a layout that optimizes your space and SKUs.

Once the layout is approved, REB will then source materials and subcontractors based on pricing and lead time. You'll then be presented with a proposal.



Upon acceptance of the proposal, you'll be assigned a REB project manager. The project manager will manage the entire pick module implementation through completion. This includes product procurement, subcontractor management, freight management, and permitting support.

## Your Next Step For a Conveyor System

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Whether you need a robust high-speed sortation system, or a simple gravity line, REB has the experience to assist you. As a distributor of several conveyor manufacturers, we can supply the most efficient and cost-effective solution to meet your material handling needs.

To learn more about what kind of conveyor system can benefit your operation, view REB's Storage Systems conveyor product pages.

We'd appreciate the opportunity to help you further, whether that be more information or a quote.

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