CONVEYOR & SORTATION

Bastian SOLUTIONS

a TOYOTA ADVANCED LOGISTICS company
Bastian Solutions

Bastian Solutions is an independent system integrator dedicated to helping our customers increase their productivity through proven automation, information systems and sound operating procedures. We provide turnkey solutions from design engineering and simulation all the way through installation and project management. We take great pride in providing exceptional service and flexibility to our customers.

ZiPline Conveyor is an advanced line of conveyors and accessories engineered to efficiently handle a variety of products. Our design allows for system flexibility and integration without sacrificing on ease of installation and cost-efficiency. Key features to our product line include:

- Low-profile channels (4.5 inches) that provide a sleek, professional look
- Modular designs provide you with exactly what you want at no extra cost
- Energy-efficient product with lower operating costs by incorporating 24V DC motors
- Quick and easy-to-follow design and pricing guide
- Products available for shipment within 24 to 48 hours
- Ease of installation
- Quiet operation provides a more pleasant experience for operators and visitors
- A vast product line, including diverts, sorters, and spirals, provides design flexibility

Why Choose ZiPline Conveyor?

We offer both AC and DC powered conveyors for various applications including:

- General transportation
- Accumulation
- Inclines/declines
- Curves
- Intelligent accumulation zones

Benefits of Choosing ZiPline Conveyor

Bastian Solutions has applied 60 years of advanced material handling experience into each ZiPline Conveyor product. The trusted name and quality that come with the purchase of a ZiPline Conveyor product are only a few of the myriad benefits of the product line. Other benefits customers experience with each ZiPline Conveyor purchase include:

- Excellent customer service
- Available onsite support
- Cost-effective solutions
- Online pricing and configuration
- CAD tools for system design
- Low-maintenance products
- Quick and easy installation
- Modular design
- 1-year warranty
- Array of options depending on model and need (guide rails, supports, speeds, roller spacing, power feeders, nose overs and motor HP)
Ease of Installation

ZiPline Conveyor products are accompanied by detailed manuals that assist the installation team through the process of assembling your systems. The modular, streamlined design has been optimized for ease of installation, meaning your system will be up and running quickly. Additionally, each purchase includes detailed product documentation to aid with proper maintenance, upkeep and repair.

World-Class Manufacturing

Bastian Solutions’ state-of-the-art manufacturing facility has the capability of producing and shipping ZiPline Conveyor products in as little as 24 hours. Our new standard product line of conveyors and associated material handling equipment offers a wide range of innovative, cost-effective and efficient products to our customers. Our modular designs allow for system flexibility and can be used for a variety of product sizes, shapes and weights.
Best Buy, a leader in consumer electronics, partnered with Bastian Solutions to transform the company’s supply chain network. To better serve retail stores and e-commerce customers, two order fulfillment system styles were engineered and replicated across the U.S. This two-tier approach includes larger, regional distribution centers as well as smaller, metropolitan distribution centers focused on next-day and same-day fulfillment. Both systems feature an integration of AutoStore goods-to-person technology, an Exacta warehouse execution system, and ZiPline Conveyor to achieve faster, more accurate shipments, while reducing overtime labor and making seasonal order volume fluctuations easier to manage.

North America’s oldest retailer, Hudson’s Bay Company, partnered with Bastian Solutions to develop an order fulfillment center capable of competing with Internet retail giants such as Amazon. The 750,000-square-foot facility holds the most advanced order fulfillment technology in Canada and has improved operations to give the retail giant a competitive advantage with online shopping. To achieve HBC’s need for decreased order cycle time, improved order accuracy, faster shipping times and increased inventory visibility, Bastian Solutions designed and integrated a system featuring 16 aisles of the Perfect Pick robotics goods-to-person system, an Exacta warehouse execution system, 32 custom ZiPline Conveyor workstations and 18,000 feet of ZiPline zero pressure accumulation conveyor.
ZiPline Sortation

ZiPline Conveyor’s sortation family offers the full range of sortation solutions to provide high and low rates of product sortation. From our shoe sorter that provides industry-leading features to a one-of-a-kind goods-to-person workstation, ZiPline Conveyor has all your sortation needs covered.

SHOE SORTER

Maximize productivity with high-efficiency sortation that isn’t a hassle to maintain. Our shoe sorter is an all-electric divert for small or large products that operates smoothly and quietly. Gain productivity from minimal downtime with quick release slats, drop out switches and a UHMW slat surface for easy cleaning.

Applications & Benefits:
• Capable of achieving speeds of over 650 feet per minute and throughput rates surpassing 18,000 cases per hour
• Ideal for high-volume sortation of varying sized products
• Patent pending “gentle touch” divert system allows for positive and gentle sortation
• High speed dedicated electric divert controller – no pneumatics

HIGH RATE TRANSFER

The high rate transfer was designed for high throughput as well as small items. It features rollers and transfer belts on 2.25” centers and can handle rates up to 40 cases per minute. It uses inline belts along with a pop-up rollers to divert items 90 degrees. The transfer is powered exclusively with 48V DC motors so there is no need for pneumatic lines.

Applications & Benefits:
• Ideal for use in pick modules
• Great for small cases (down to 4” x 6”)
• Low-maintenance, very robust
• All electric (non-pneumatic)
• Quiet operation
The goods-to-person workstation was designed to complement a goods-to-person storage and retrieval system. The workstation has 6-8 positions for orders to be filled. Each position has a takeaway transfer that conveys the completed case to the adjacent discharge conveyor and brings the next case to fill the position. The workstation is an all-electric design allowing it to be installed without the need to run air lines. It was designed with small cases in mind and has rollers and transfer belts on 3” centers.

**Applications & Benefits:**
- Perfect for goods-to-person picking stations
- Great for small cases (down to 6” x 9”)
- High throughput
- All electric (non-pneumatic)
- Low-maintenance, very robust
- Quiet operation

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The pivot wheel divert (PWD) is a cost competitive solution for sorting cases. It is a great solution for conveyors with a single divert or a large distance between diverts. The pivot wheel divert rollers are powered by 48V DC motors, and the unit can handle rates up to 60 cases per minute.

**Applications & Benefits:**
- Perfect for case sortation onto angled spurs
- Great for small cases (down to 6” x 9”)
- Low-maintenance, very robust
- All electric (non-pneumatic)
- Maintains product orientation
- Quiet operation
- Cost-effective

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The Bastian Solutions ZiPline Conveyor vertical spiral is a 24-volt accumulating spiral conveyor that can function as both incline and decline conveyors. They operate with dynamic zoning, accumulation or slug release. The ZiPline vertical spirals operate with DC motor drives so accumulation can occur without distributed programming. The DC motors allow for an energy efficient, quiet operation with the use of photoeyes for accumulation logic. The spiral can be designed with multiple infeed and divert levels.

**Applications & Benefits:**
- Small case sortation and transferring
- Case alignment
- Low-maintenance & cost-effective solution
- Compact elevation changes
- Shipping downlines
- Transport & routing from multi-level pick modules
ZiPline Conveyor

Bastian Solutions’ product line of conveyors and associated material handling equipment offers a wide range of innovative, cost-effective and efficient products to our customers. Using the latest technologies, we have developed a family of high-quality and market–competitive conveyors that are sure to meet your needs. Our modular designs allow for system flexibility and can be used for a variety of product sizes, shapes and weights.

Belted Zero Pressure DC Conveyor (BZPDC)

Applications & Benefits:
- Incline & decline high-grip applications
- Small carton conveyance
- Empty box/carton conveyance
- Quiet operation
- Low energy usage
- Less jamming with belted surface
- Controlled acceleration / deceleration (200 fpm)
- Capacity up to 65 lbs per zone

The Belted Zero Pressure DC Conveyor (BZPDC) is used for product that needs to be accumulated without contacting other product. The BZPDC is designed with brushless 24V DC motors to create distinct, belted zones. The zero pressure control logic of each zone is what produces the accumulation capability of the conveyor. The BZPDC is optimal for conveying small cartons due to the small transition gaps between belted zones.

Roller Zero Pressure DC Conveyor (RZPDC)

Applications & Benefits:
- Zero pressure (non-touching) accumulation of cartons and totes
- Eases stress on upstream and downstream equipment by buffering product
- Low torque DC motors are safer for operator interaction
- Available with 4", 3" or 2" roller centers
- Poly-v bands available for better drive

The Roller Zero Pressure DC Conveyor (RZPDC) is used to accumulate cartons and totes. Each zone has adjustable speed to pull gaps. The brushless 24V DC motor provides dynamic breaking to keep heavier loads within a zone.

Live Roller DC Conveyor (RLVDC)

Applications & Benefits:
- Optimal for transport where accumulation is not required
- Ideal for medium to light products (up to 65 lbs)
- Modular design speeds reconfigurations

The Live Roller DC Conveyor (RLVDC) utilizes brushless 24V DC motors along the length of the conveyor. Rollers in this conveyor are driven from one another with high tensile O-rings. Using low voltage drives yields several benefits including dramatic energy savings and the ability for operators to work safely around the conveyor.
**RLSDC**  
**LIVE ROLLER SPUR DC CONVEYOR**  
The Live Roller Spur DC Conveyor (RLSDC) utilizes brushless 24V DC motors along the length of the conveyor. Rollers in this conveyor are driven by one another with high tensile O-rings or poly-V. This model provides two zones of accumulation per 90 degrees, each with a 24V DC brushless motor. The RLSDC is available in 30°, 45° or 90° angles.

**Applications & Benefits:**  
- Merging products onto main line of conveyor  
- Diverting products off a sorter  
- Ideal for light to medium sized products  
- High-speed spurs from 200fpm-400fpm are optional

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**RLCDC**  
**LIVE ROLLER CURVE DC CONVEYOR**  
The Live Belt Roller Curve DC Conveyor (RLCDC) is a tapered roller curve which aids in carton tracking around corners. Unlike many roller curve conveyors, this model is a true taper which prevents products from skewing as they travel through the curve. The RLDCDC is available in 30° or 45° curve angles.

**Applications & Benefits:**  
- Curve transport where accumulation is not required  
- Product maintains orientation through the curve

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**RZCDC**  
**ROLLER ZERO PRESSURE CURVE DC CONVEYOR**  
The Roller Zero Pressure Curve DC Conveyor (RZCDC) is a tapered roller curve which provides carton tracking around corners. Unlike many roller curve conveyors, the RZCDC is a true taper which prevents products from skewing as they travel through the curve. This model provides two zones of accumulation per 90 degrees, each with a 24V DC brushless motor. The RZCDC is available in 30°, 45° or 90° angles.

**Applications & Benefits:**  
- Shipping lane curves where accumulation is needed  
- Recirculation loops  
- Effective for high-speed applications  
- Ideal for medium to light products  
- Works with a variety of product sizes and types  
- Product maintains orientation through the curve

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**BRBAC**  
**BELT OVER ROLLER BED AC CONVEYOR**  
The Belt Over Roller Bed AC Conveyor (BRBAC) is a cost-effective transport conveyor that allows long lengths on a single drive motor. It works with a variety of products including cartons and cases, as well as hard to convey products such as blister packs, envelopes and bags. This conveyor has a belt across the width of the conveyor that rides on idler rollers. This reduces the drag and allows for long runs on a single AC drive motor.

**Applications & Benefits:**  
- Transportation of hard to convey products such as blister packs, bags and envelopes  
- Medium weight products on longer runs of conveyor  
- Inclines and declines available with noseovers and power feeders

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**BSBAC**  
**BELT OVER SLIDER BED AC CONVEYOR**  
The Belt Over Slider Bed AC Conveyor (BSBAC) is a transport conveyor that works for a variety of products including cartons and cases as well as hard to convey products such as blister packs, envelopes and bags. This conveyor has a belt across the width of the conveyor that rides on a galvanized slider bed.

**Applications & Benefits:**  
- Transportation of hard to convey products such as blister packs, bags and envelopes  
- Handling medium weight items on longer runs  
- Inclined/decline conveyors with noseovers and power feeders  
- Used when tracking products with an encoder

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**RMDGV**  
**ROLLER MEDIUM DUTY GRAVITY**  
The ZiPline gravity conveyor provides an economical means of declined transportation for easy manual movement of materials. The gravity conveyor matches the design of the rest of the ZiPline Conveyor line making it an ideal choice for areas that don’t need power.

**Applications & Benefits:**  
- Declined minimum accumulation  
- Manual workstations and assembly lines  
- Precision rollers for smooth transition with sleek, low profile design
Chain roller Live AC (CRLVAC) is designed to convey loads such as pallets, containers, and drums and is an economical solution for many vertical industries and applications within warehousing, distribution, and manufacturing. CRLVAC features chain-driven powered rollers that are also ideal for conveying hot or oily parts.

Drag Chain Live AC is designed to handle pallets and other heavy unit loads. The conveyor can include two or three strands of powered chain to support the material being conveyed. A center drive allows for reversing capability.

Chain Roller Chain Transfer AC is designed for changing the direction of flow for large, heavy loads. The drag chain moves the load onto or off the transfer carriage. The carriage lowers and raises through the chain-driven live roller conveyor to change the orientation 90° from the original direction of flow.

Industries Served
Bastian Solutions has over 8,000 active customers globally. Our industrial automation expertise helps our customers across industries achieve their automation goals.

- AUTOMOTIVE
- E-COMMERCE & FULFILLMENT
- PHARMA, BIOTECH & HEALTHCARE
- FOOD & BEVERAGE
- MANUFACTURING
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Learn more about ZiPline Conveyor
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