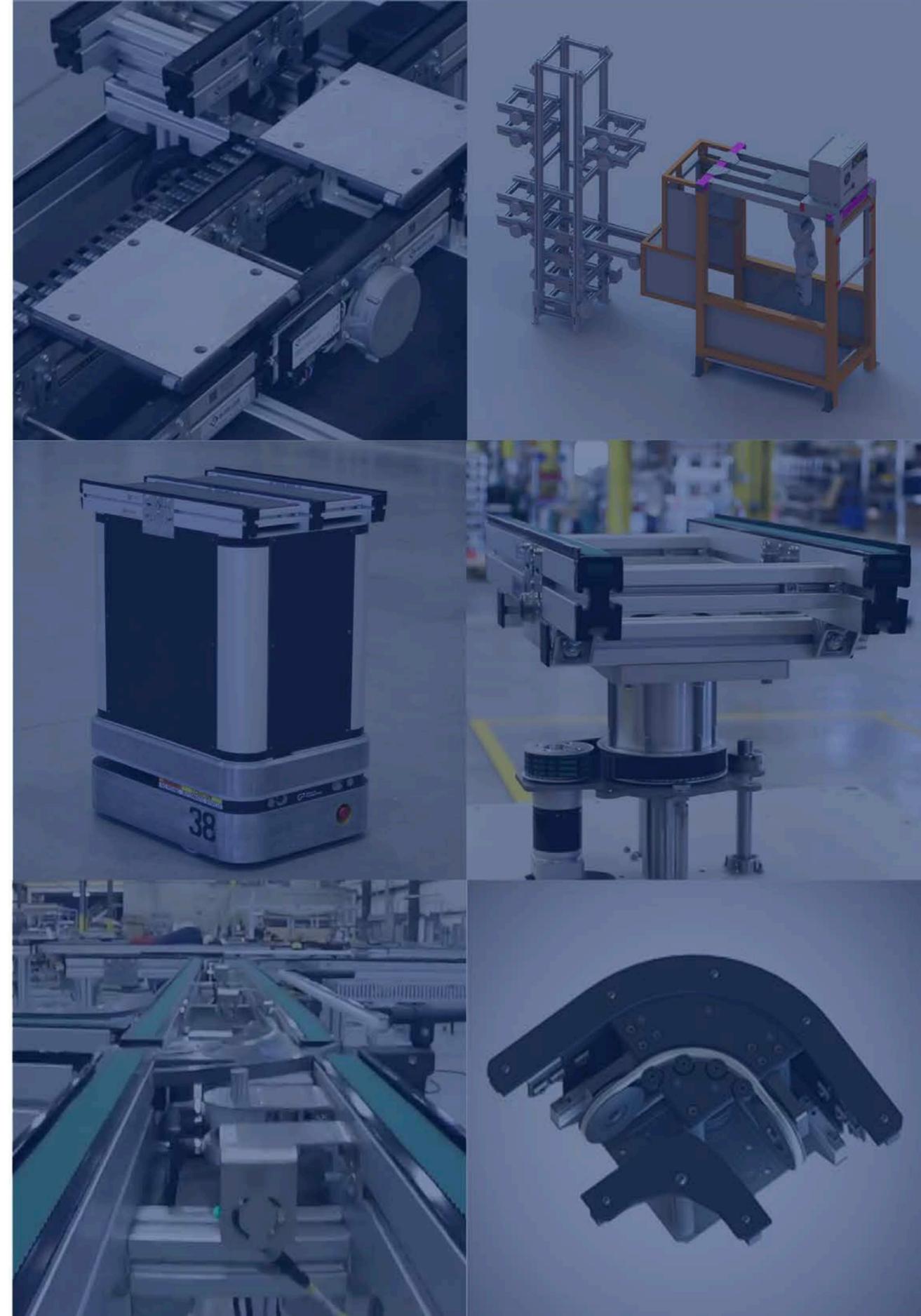


THE GLIDE-LINE CONVEYOR SOLUTIONS CATALOG



GLIDE-LINE™

An Employee Owned Company



What Sets Us Apart...

This Catalog displays a variety of conveyor solutions. Any of these options come with the Glide-Line promise. We promise we will meet your project's tightest deadlines and have the fastest lead times in the industry.

Fast:

With Glide-Line's modular design and simple construction, conveyors and systems can be built and shipped in lead times typically half that of our competition.

Flexible:

We designed Glide-Line to be a premier product, resulting in comprehensive design flexibility. Whether you need a single device for a unique application or a complete, custom system configuration, we can deliver.

Easy:

A company with a culture designed to meet your needs, and to responsively support you through the process, and to make our commitments.

- 1 Timing Belt Conveyors
- 2 Roller Chain Conveyors,
- 3 Glide-Line Devices / Accessories
- 4 Zero Contact Zoned Conveyor
- 5 Glide-Line 360
- 6 VTU
- 7 Conveyors for AMRs
- 8 Customized Solutions Gallery

SECTION 1

TIMING BELT CONVEYORS

Timing belts have toothed surfaces that engage with matching, toothed pulleys. Timing belt conveyors are highly configurable to move complex transport routes, including rotation, lift, and transfer units for changing product direction and managing product orientation. Our timing belt solutions, both conveyors and accessories can meet any length, width, speed control, or pivoting requirements through a facility.



TWIN STRAND SOLUTIONS

Why the Twin-Strand Work Pallet Handling System?

The foundation of the Glide-Line pallet handling system is a twin-strand conveyor designed to transport work piece pallets from workstation to workstation. Transport conveyors connect in multiple ways to suit a variety of assembly system requirements. Glide-Line can be constructed with as many strands as needed to transport panel-like products or large, platform-type fixtures from workstation to workstation.





LIFT AND LOCATE UNITS

Glide-Line offers an assortment of Lift & Locate units to fit various customer needs.

Lift and Locate devices are used to lift a pallet off the belt to position accurately for external operations. Positional accuracy is typically +/- .05mm but can be tighter or looser based upon the application requirements. The Standard and Low-Profile lift and locates are most common with the main difference being vertical stroke (standard lift and locate offers 3-200mm z-axis adjustment). The Heavy-Duty lift and locate can support massive downward force, and the Lift and Position Kit is typically used on larger pallets.



STANDARD LIFT AND LOCATE UNIT

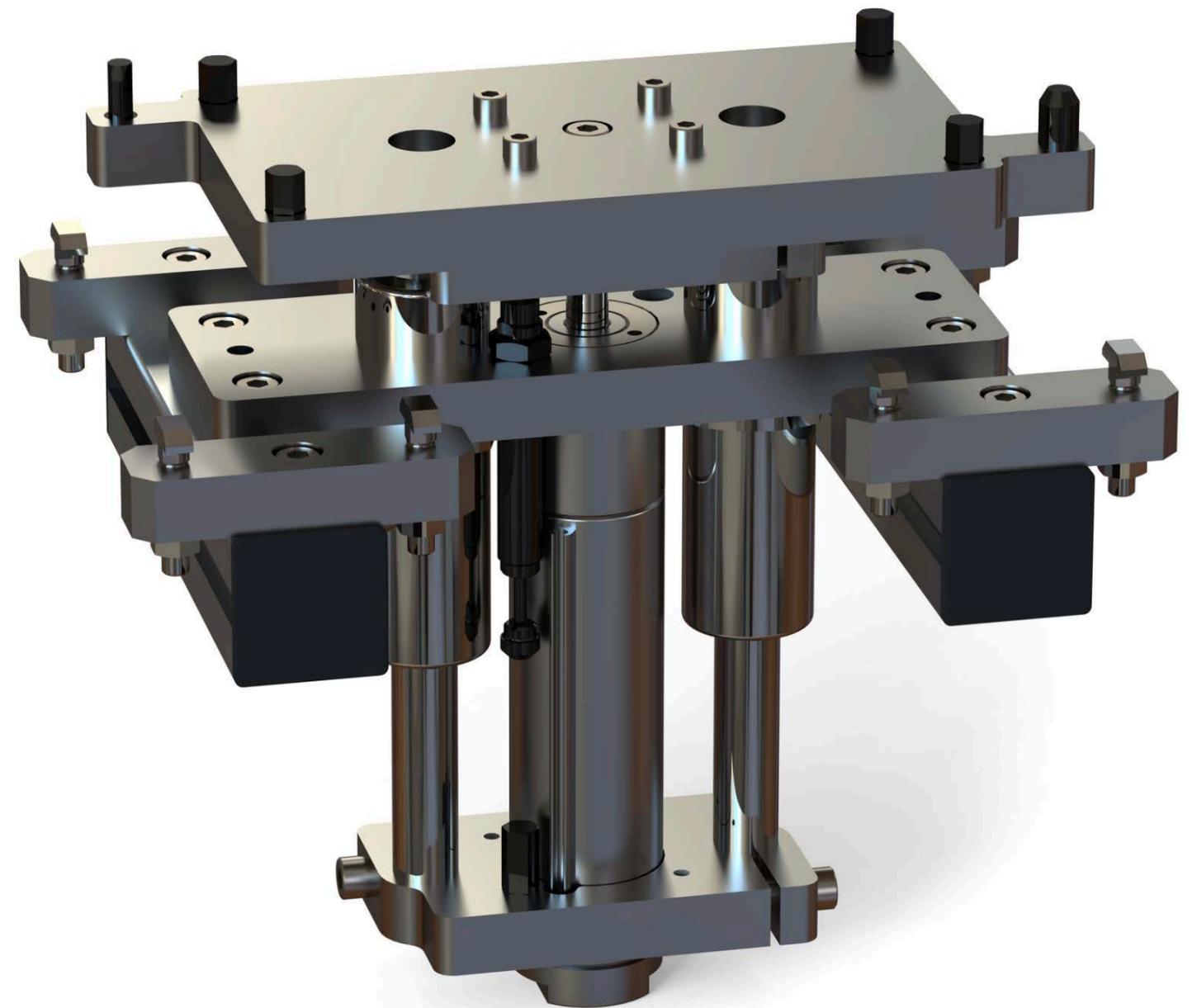
The Standard Lift and Locate Unit offers fully configurable vertical lift positioning, and it is suitable for applications that require repeatable, positional accuracy within $\pm 0.05\text{mm}$. The unit can be station-mounted or mounted directly to the transport conveyor; accuracy and repeatability are relative to the mounting structure.

Features:

- Pneumatic lift actuation.
- Station or conveyor mounted.

Options:

- Guard package
- Mid and High tolerance locating pins available





LOW-PROFILE LIFT AND LOCATE UNIT

Low-Profile Lift and Locate Unit (LLU) offers vertical lift positioning in a small footprint, and it is suitable for applications that require repeatable, positional accuracy within $\pm 0.05\text{mm}$. Additional fit options are available on request for lower tolerance applications. The low-profile design allows the LLU to be used in situations that have limited clearance below the conveyor.

Features:

- Pneumatic lift actuation
- Low profile allows for installation in areas with limited space



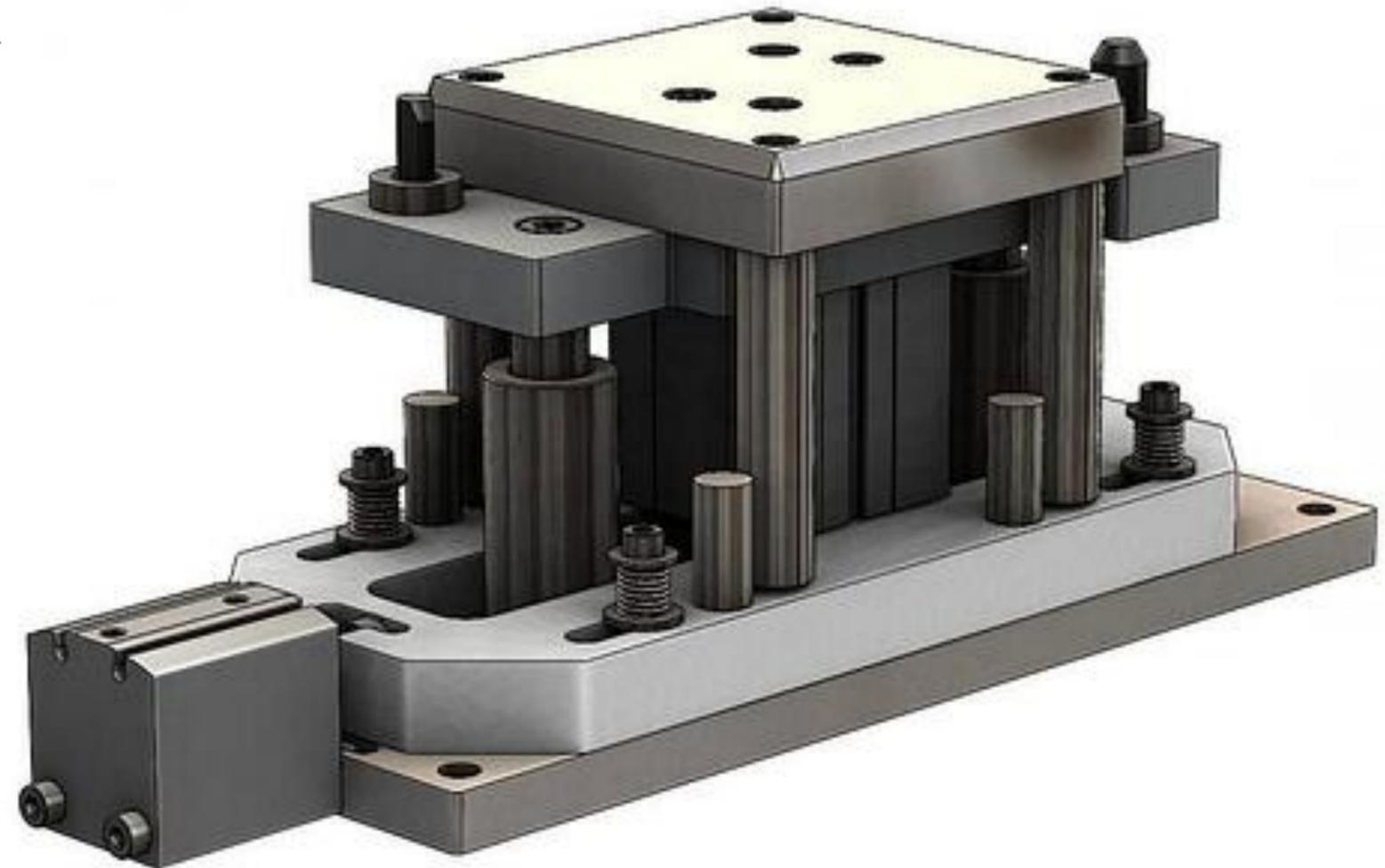


HEAVY-DUTY LIFT AND LOCATE UNIT

The Heavy-Duty Lift and Locate Unit delivers repeatable, positional accuracy within $\pm 0.05\text{mm}$. The vertical lift position is fixed at 1.5mm above the belt, and the unit is designed to handle heavy loads for press operations such as swaging and ultrasonic welding. This unit utilizes a pneumatic shuttle that slips between the baseplate and the lift anvil once the pallet is raised into position. Heavy-Duty Units must be station-mounted on suitable structures to absorb the required loads; accuracy and repeatability are relative to the mounting structure.

Features:

- Pneumatic lift actuation
- Pneumatic shuttle lock for heavy load absorption
- Force absorption zone covers the entire anvil surface

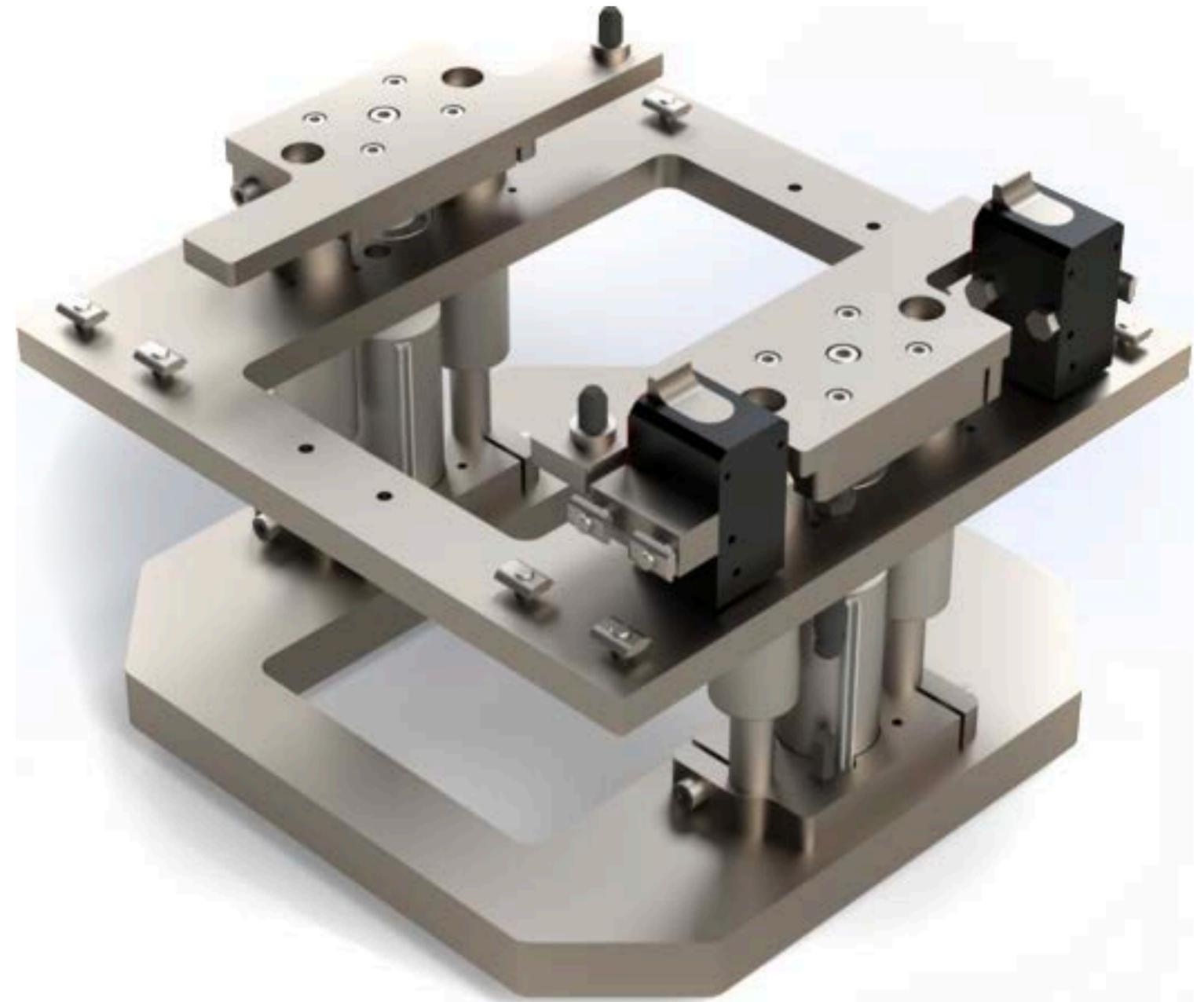


OPEN CENTER LIFT AND LOCATE UNIT

The Open Center Lift and Locate Unit offers fully configurable vertical lift positioning, and it is suitable for applications that require repeatable, positional accuracy within $\pm 0.05\text{mm}$. The unit can be station-mounted or mounted directly to the transport conveyor; accuracy and repeatability are relative to the mounting structure.

Features:

- Pneumatic lift actuation.
- Station or conveyor mounted.



LIFT POSITION KIT

Lift and Position Kit is a highly configurable device, specifically designed for larger pallets that allows one to locate only, lift only, or both lift and locate. This device mounts directly to the bottom of the conveyor T-slot. When locating, the position cylinders are capable of repeatable, positional accuracy within $\pm 0.05\text{mm}$.

Features:

- Pneumatic lift actuation
- Lift and locates large pallet sizes
- Can be configured as lift only, lift and locate, or locate only



WORK PIECE PALLET

Glide-Line pallets work as a carrier for work pieces as they move around a conveyor system. Most pallets are tooled with custom fixturing components to secure work pieces as they are handled, and each pallet contains a set of precision bushings for exact pallet location at each workstation by means of our Lift and Locate Units.

Features:

- Length and width range from 160mm to 1040mm
- Various tool plate materials available
- Precision custom machining available
- Can be supplied assembled or unassembled

Options:

- Baseplate materials
 - Stainless Steel, Aluminum, Carbon steel, or Plastic (not suitable for precision applications)
- Custom baseplate machining available





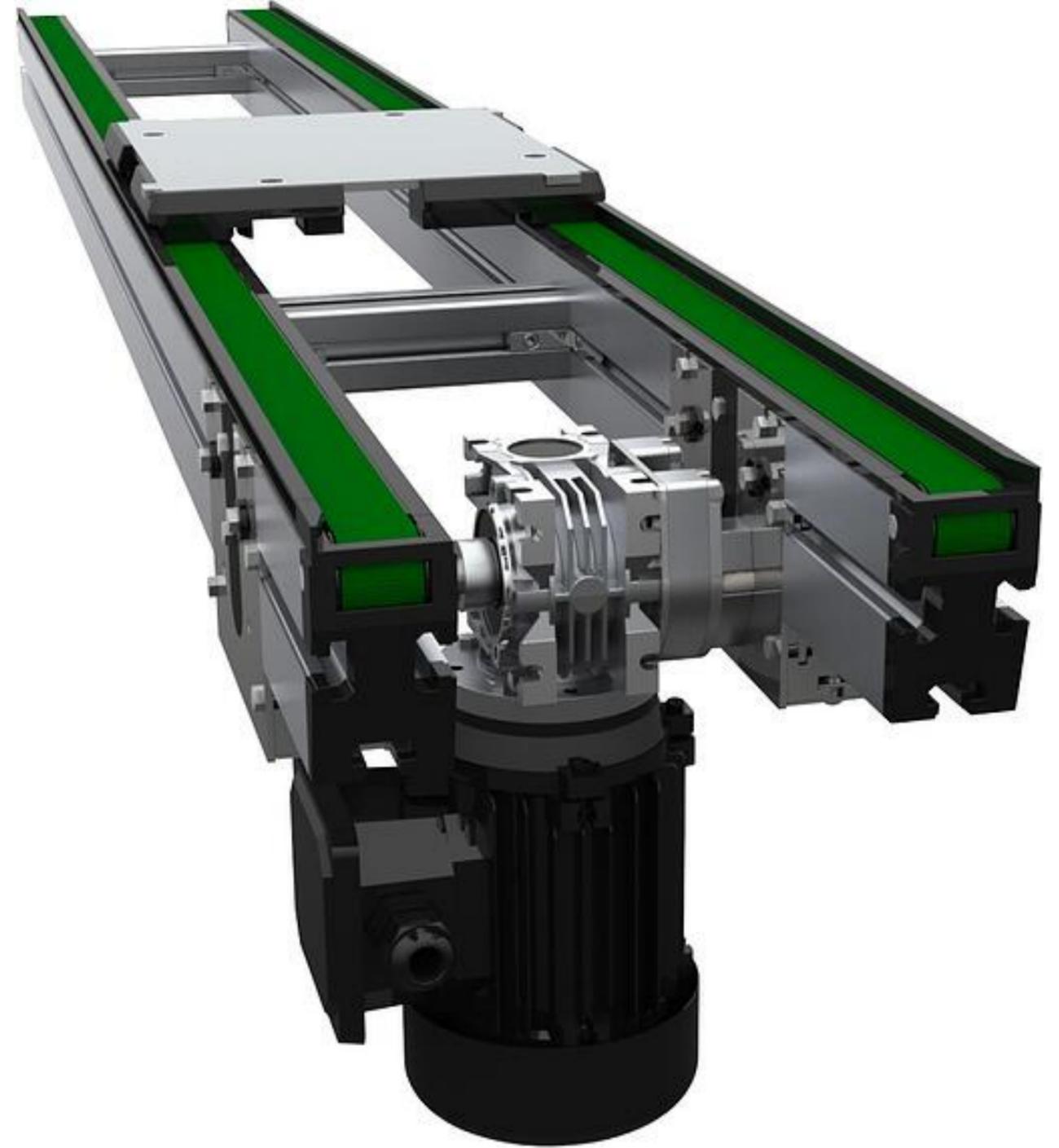
PALLET TRANSPORT CONVEYOR

Do we create a new name "Direct Product Transport Conveyor"?

The Twin Strand Transport Conveyor is a material handling solution of two or more strands, transporting panel-like products or large, platform-type fixtures from workstation to workstation. With the addition of our Roller Lift Transfer Unit, transport conveyors can be connected in many ways to suit a variety of assembly system requirements.

Features:

- T5 timing style conveyor belts for positive drive and precision positioning ability
- Several belt materials available to service a wide range of pallet handling conditions
- Utilizes all ball bearing supported rolling elements for long maintenance free operation
- Certified for use in clean room environments
- Antistatic materials available to suit operation in static sensitive areas or with static sensitive payloads
- All maintenance operations including belt changes can be performed from the top eliminating the need to disassemble or remove ancillary equipment
- Highly configurable
- Bolt-up compatibility with other leading brands



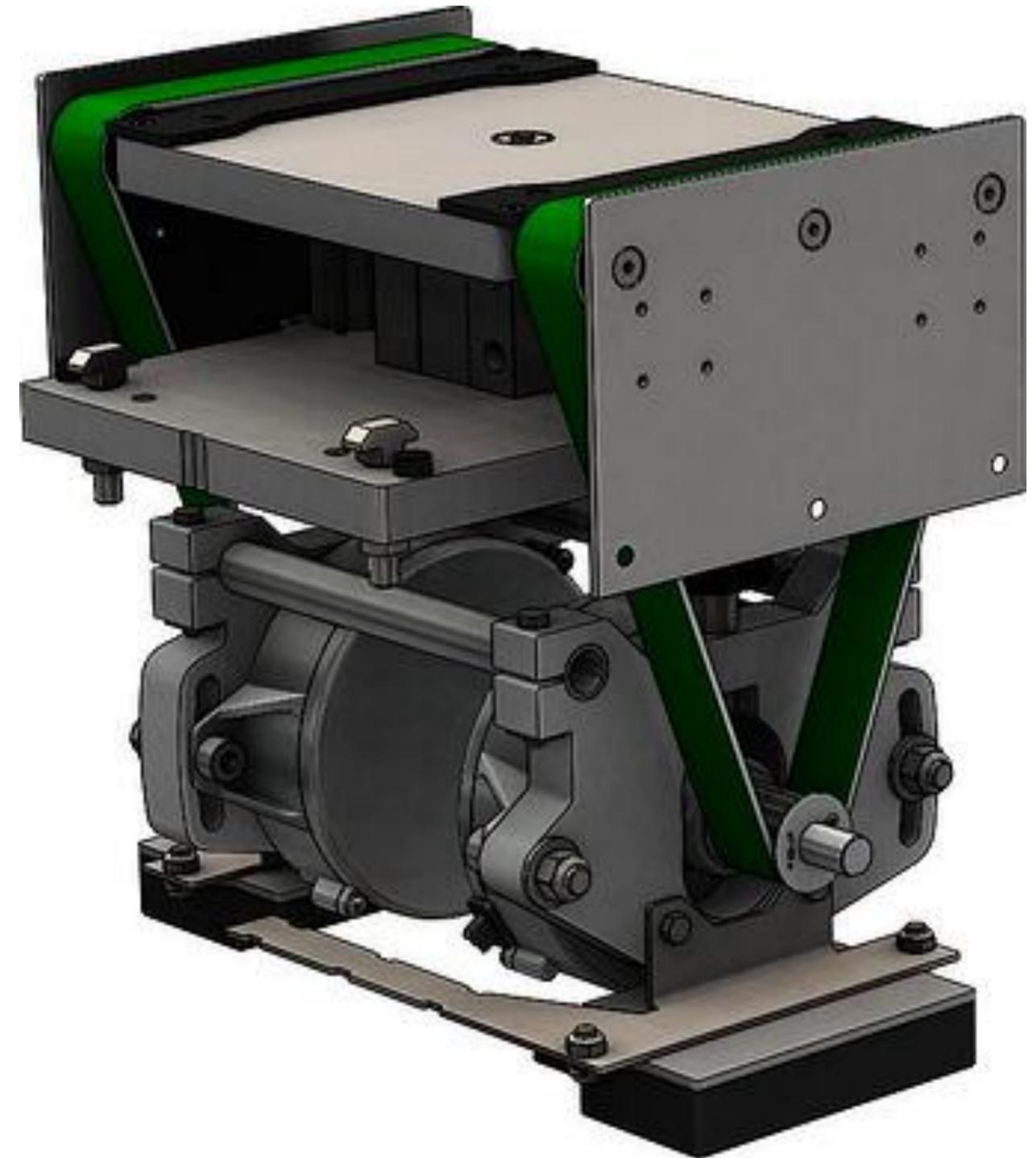


LIFT TRANSFER UNIT

Lift Transfer Units move work piece pallets from one transport conveyor to another. Each unit contains a pair of belts that lift to engage the pallet perpendicular to the direction of flow. The lift action raises the pallet up and over the guide rail so it can be conveyed onto the adjacent transport conveyor. Units are bi-directional and can be set up to manage two, three, and four-way traffic control conditions.

Features:

- T5 timing style conveyor belts for positive drive
- Several belt materials available to service a wide range of pallet handling conditions
- Utilizes all ball bearing supported rolling elements for long maintenance free operation
- Antistatic materials available to suit operation in static sensitive areas or with static sensitive payloads
- Highly configurable
- Bolt-up compatibility with other leading brands





PALLET STOPS

Glide line offers a wide variety of pallet stops to suit the traffic handling demands of your application. They are broken into 4 general categories:

- Dampened Pallet Stops
- Non-Dampened Pallet Stops
- Anti-Rebound Pallet Stops
- Drop-Away Stops

All stops can be configured to be pneumatically single or double acting, to stop work-piece pallets so an operation can be performed. Dampened Stops offer a pneumatic cushioning force to the work piece that slows the impact of the pallet against the stop. The cushioning force can be adjusted to suit specific application needs. Larger stops and higher cushioning forces are available upon request.

Anti-Rebound pallet stops can be utilized as a unidirectional stop gate to prevent pallets from moving if the conveyor belt reverses direction in the application. Drop-Away pallet stops are designed to work at an LTU (Lift and Transfer Unit) intersection where pallets are required to traverse in multiple directions.





CURVE

Glide-Line curves are a mechanism to change the direction of a pallet. Pallets are conveyed around the curves by means of a solid, round urethane belt that is driven on v-groove pulleys. Small idler pulleys follow the track to reduce friction and prevent wear and tear. Due to the configurable nature of our systems, curves can be configured in any angle from 15 to 270 degrees.

Features:

Curves are typically slave driven off adjacent conveyor by extending the o-ring belt into the upstream or downstream conveyor. The upstream conveyor utilizes a power take off shaft through a secondary drive box on the main conveyor and this shaft drives the v-grooved o-ring belt pulley.

Options:

- Various angles to suit your needs, configurable from 15 to 270 degrees





MULTI- STRAND SOLUTIONS

Why the Multi-Strand Panel Handling System?

- **Creativity**
- **Flexibility**
- **Versatility**

Glide-Line conveyors can be constructed with as many strands as needed, typically for large panel handling. Glide-Line even has a patent pending centerline adjustment feature.





MULTI-STRAND TRANSPORT CONVEYOR

The Multi-Strand Transport Conveyor is a material handling solution of two or more strands, transporting panel-like products or large, platform-type fixtures from workstation to workstation. With the addition of our Roller Lift Transfer Unit, transport conveyors can be connected in many ways to suit a variety of assembly system requirements.

Features:

- T5 timing style conveyor belts for positive drive and precision positioning ability
- Several belt materials available to service a wide range of pallet handling conditions
- Utilizes all ball bearing supported rolling elements for long maintenance free operation
- Certified for use in clean room environments
- Antistatic materials available to suit operation in static sensitive areas or with static sensitive payloads
- All maintenance operations including belt changes can be performed from the top eliminating the need to disassemble or remove ancillary equipment
- Highly configurable
- Bolt-up compatibility with other leading brands





SINGLE STRAND SOLUTIONS

Why the Single Strand Solution?

A configurable conveyor designed for precision indexing, durability and clean room environments; Glide-Line Single Strand solutions are a great fit for the Feeder Industry. This is a best in class solution at a competitive price made possible by using 21st century advanced manufacturing and engineering techniques.

SINGLE STRAND SOLUTION

A configurable conveyor designed for precision indexing, durability and clean room environments; Glide-Line Single Strand solutions are a great fit for the Feeder Industry. This is a best in class solution at a competitive price made possible by using 21st century advanced manufacturing and engineering techniques.

Features:

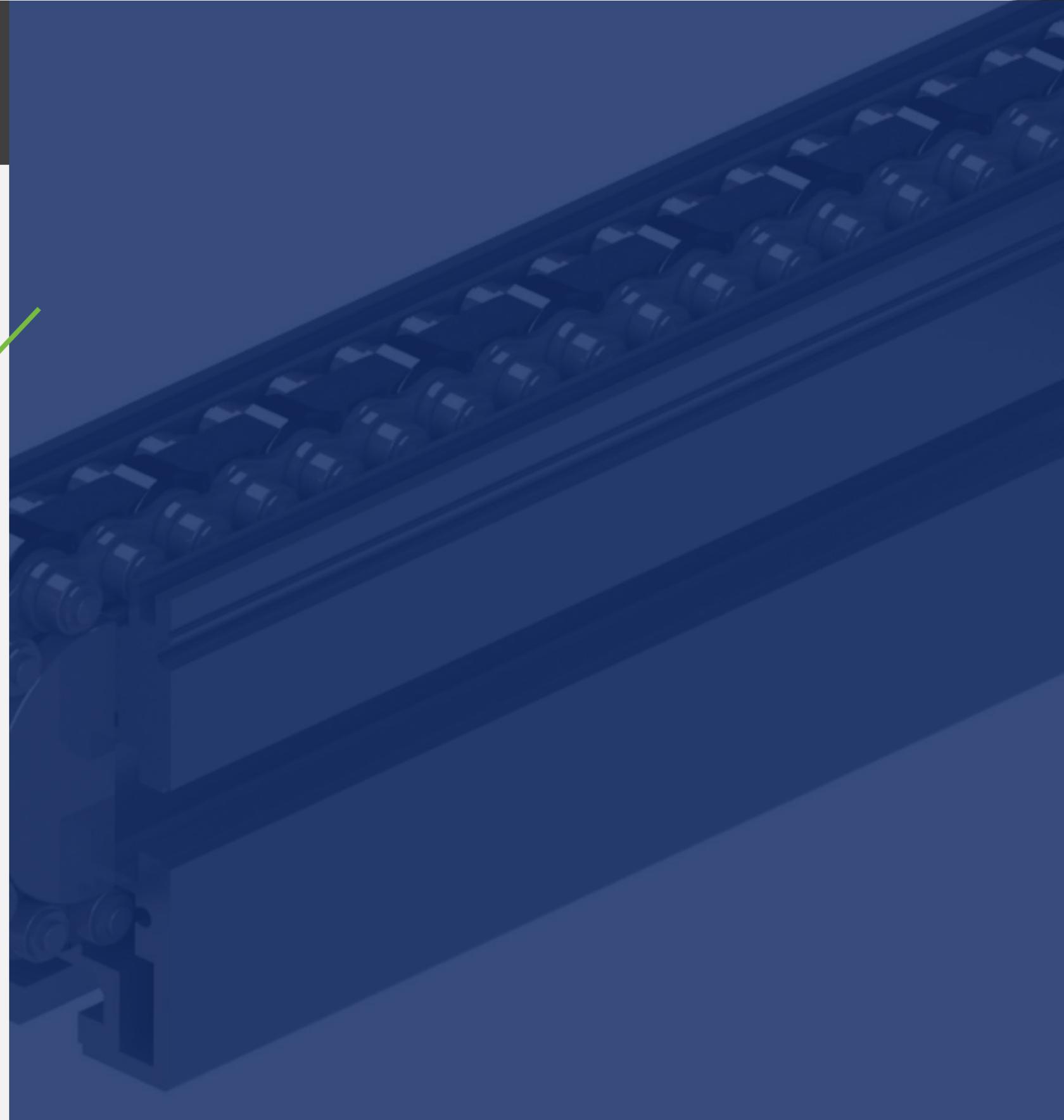
- Precision indexing capable with timing belt based design
- Clean room rated down to Class 100 (ISO class 5)
- Precision bearings on all rolling surfaces
- 24VDC drive option
- All service work can be performed from above with unique lift out feature for the belting to be replaced



SECTION **2**

ROLLER CHAIN CONVEYORS

Glide-Line's roller chain conveyor isn't like any you've worked with before. This innovative twist on a long-running traditional conveyor gives you the configurability, flexibility, and quick lead times you've come to expect from Glide-Line, with the strength and heavy duty build of a roller chain conveyor.



ROLLER CHAIN CONVEYOR WITH DYNAMIC TRACTION CONTROL

Our dynamic traction control conveyors are built to give you an innovative option on a roller chain conveyor. Built with industry-leading steel roller chain steel chain, the built-in rollers spin under accumulating products to reduce backpressure. We've also added a built-in, programmable accelerator to add friction when you need it, typically at stop locations. It's everything you need in a roller chain conveyor, with a signature Glide-Line twist including everything you want.

Dynamic traction control: Built-in accelerator to assist with faster start-up

Precise control: you choose when the accelerator is on and when it's off, and where it is located

Hardware jam protection: industry-leading jam protection to prevent catastrophic jams and regular reliability issues



SECTION **3**

DEVICES AND ACCESSORIES

Glide-Line's vast selection of devices and accessories include many options that support unique product needs, such as those that require gentle handling, those that need an open center design, and those that require complete control over rotating angles.



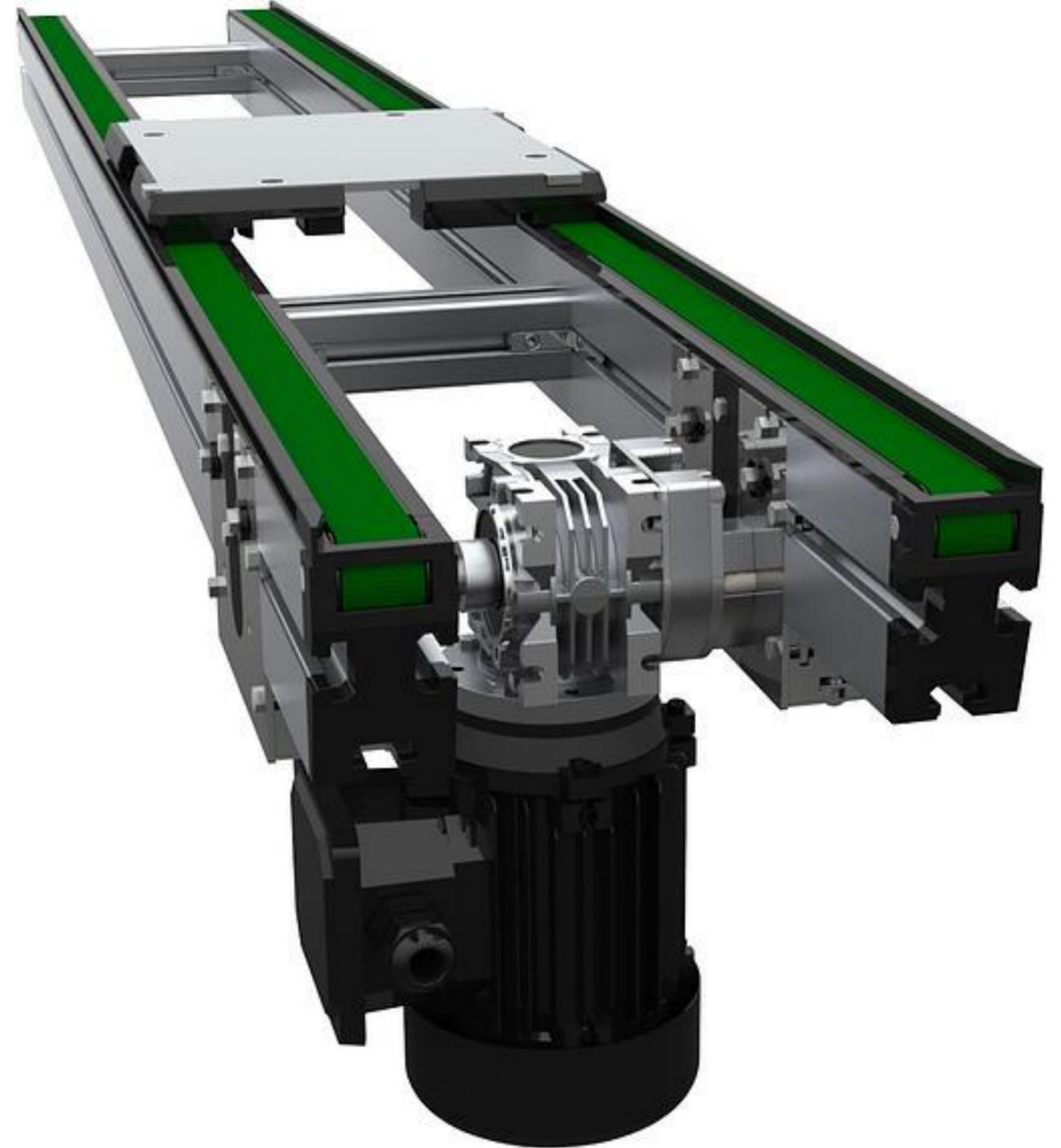


PALLET TRANSPORT CONVEYOR

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Features:

- T5 timing style conveyor belts for positive drive and precision positioning ability
- Several belt materials available to service a wide range of pallet handling conditions
- Utilizes all ball bearing supported rolling elements for long maintenance free operation
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- All maintenance operations including belt changes can be performed from the top eliminating the need to disassemble or remove ancillary equipment
- Highly configurable
- Bolt-up compatibility with other leading brands





LIFT TRANSFER UNIT

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CURVE

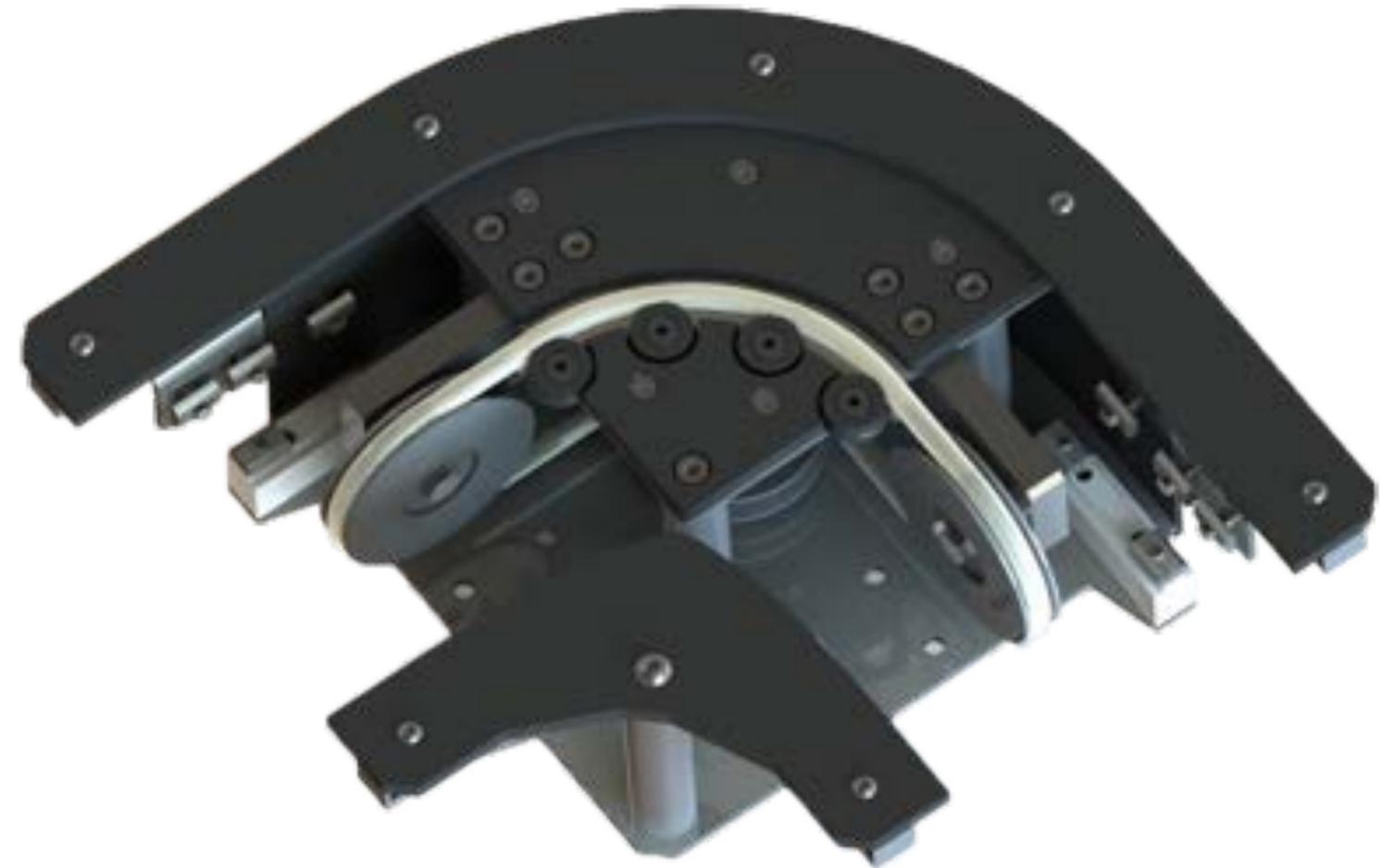
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Features:

Curves are typically slave driven off adjacent conveyor by extending the o-ring belt into the upstream or downstream conveyor. The upstream conveyor utilizes a power take off shaft through a secondary drive box on the main conveyor and this shaft drives the v-grooved o-ring belt pulley.

Options:

- Various angles to suit your needs, configurable from 15 to 270 degrees





PALLET STOPS

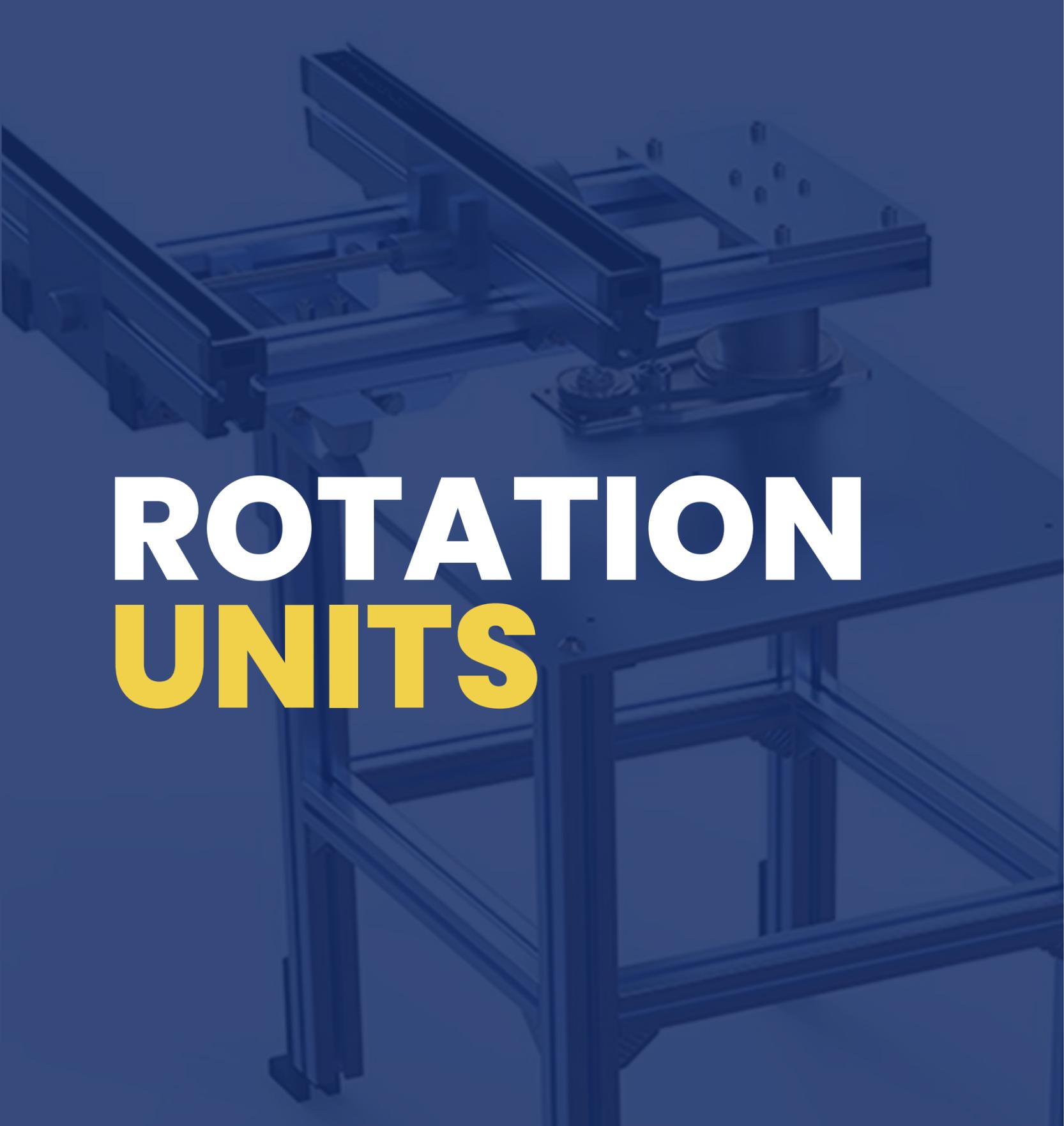
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- Drop-Away Stops

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Anti-Rebound pallet stops can be utilized as a unidirectional stop gate to prevent pallets from moving if the conveyor belt reverses direction in the application. Drop-Away pallet stops are designed to work at an LTU (Lift and Transfer Unit) intersection where pallets are required to traverse in multiple directions.





ROTATION UNITS

Product and Conveyor Rotation Units for ANY Product and Process

Your product and process determine the best solution for you. Glide-Line offers a multitude of options to rotate products, pallets, or even entire conveyors within your conveyor line. Built for precision positioning and smooth motion control, most use an electric, programmable, stepper- or servo-driven rotation, and all are built to suit your exact needs.





CONVEYOR ROTATE UNIT

Allows for rotation of conveyors for pallets and product to navigate corner/end transfers.

- Conveyor Rotate Unit is servo driven to allow for smooth, precise movement
- Allows product to be transferred to an adjacent conveyor while maintaining leading edge of pallet
- Useful when pallet size and/or weight exceed limitations of Glide-Line curve modules
- Custom designed for any rotation angle/travel distance

Options:

- Rotate about center axis or offset axis
- Servo rotation range 0-360°





LIFT AND ROTATE UNIT

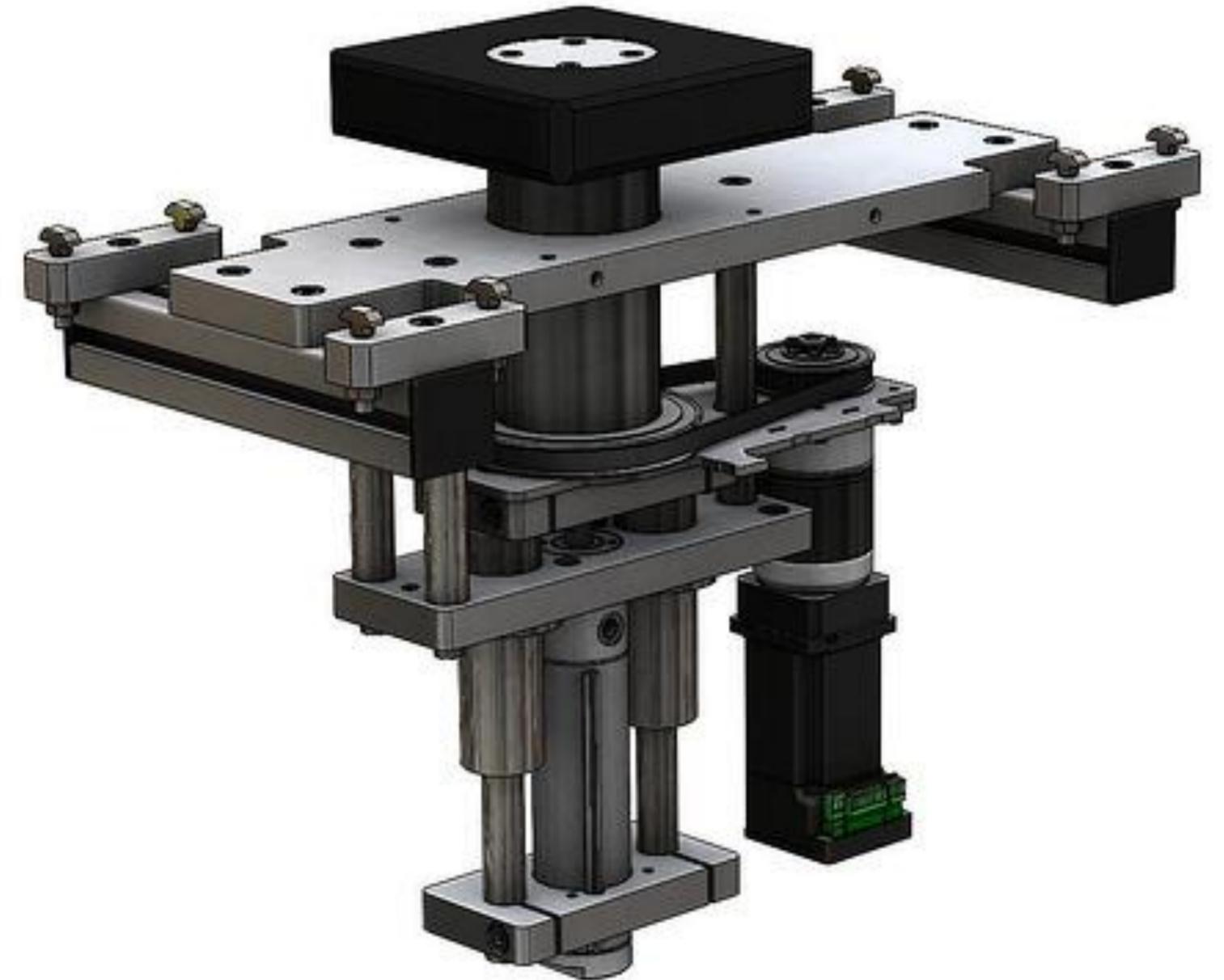
The Lift and Rotate unit is designed to turn pallets 90° or 180° in a clockwise or counterclockwise direction. The unit uses pneumatics (lift portion) and servo motors (rotating portion) for ultra-smooth rotational motion and acceleration. Servo motors are customizable for special applications that demand continuous rotational motion, such as winding operations or visual inspection requiring multiple view angles. It can also act as a lift-and-bypass unit, lifting pallets and placing them on a shelf so other pallets can pass through.

Features:

- Pneumatic lift
- Servo driven rotation
- Integrated shock absorbers for lift motion

Options:

- Guard package
- Mid & high tolerance locating pins available





MANUAL LIFT AND ROTATE UNIT

Allows for vertical lifting of pallet and rotation of 90 degrees.

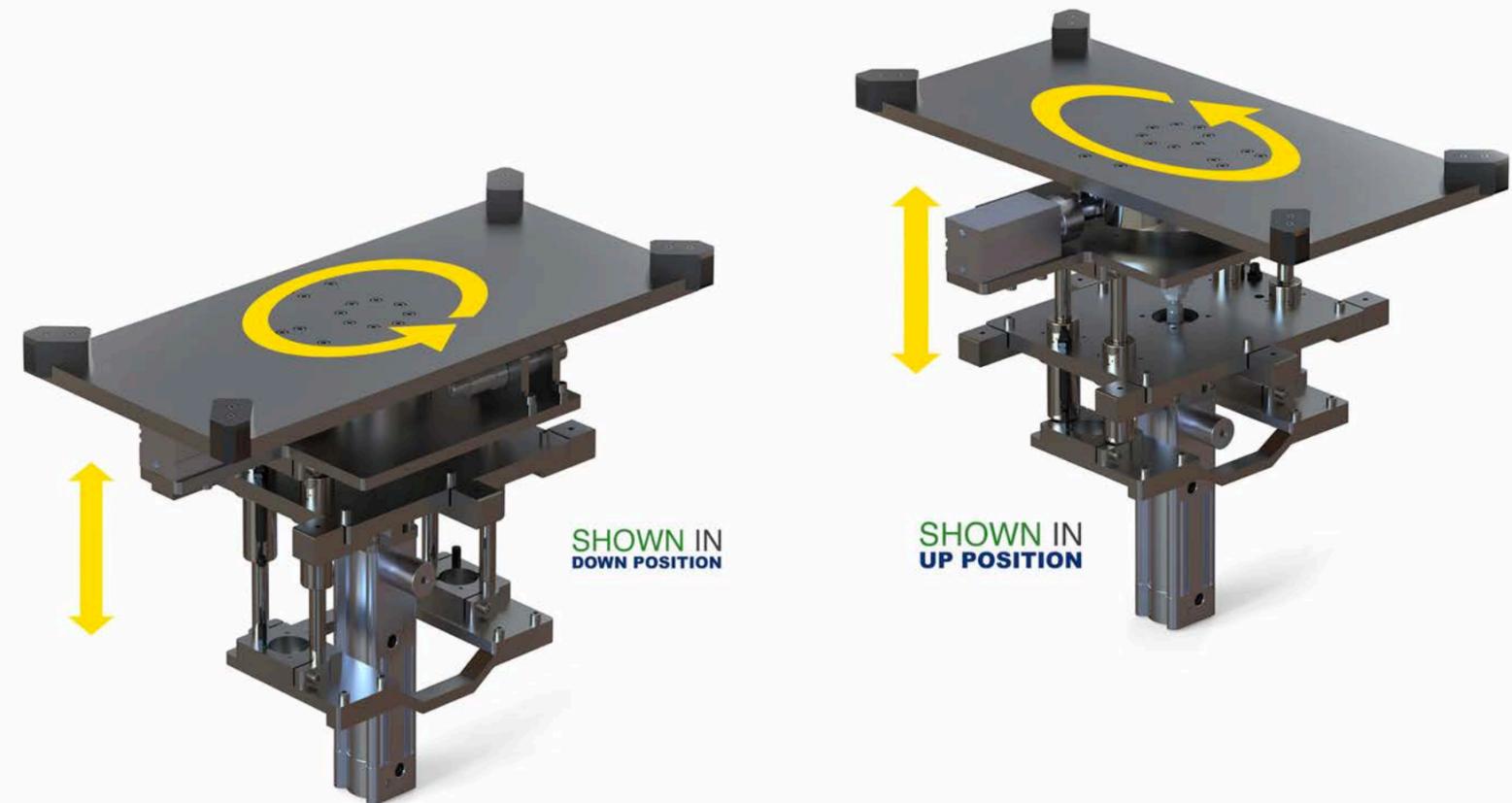
- Robust Lift and Rotate Unit that allows for product to be lifted off conveyor, and rotated 90 degrees
- Provides operator improved access to product
- Manual rotation allows for operator to rotate product without controls
- Rotation lock to secure pallet in position at end of rotation cycle

Features:

- Dual acting air cylinder with clamping device to secure device in case of loss of air pressure
- Robust slewing bearing for rotation ensures smooth and easy operation

Options:

- Can be designed for various rotation angles or freely spinning



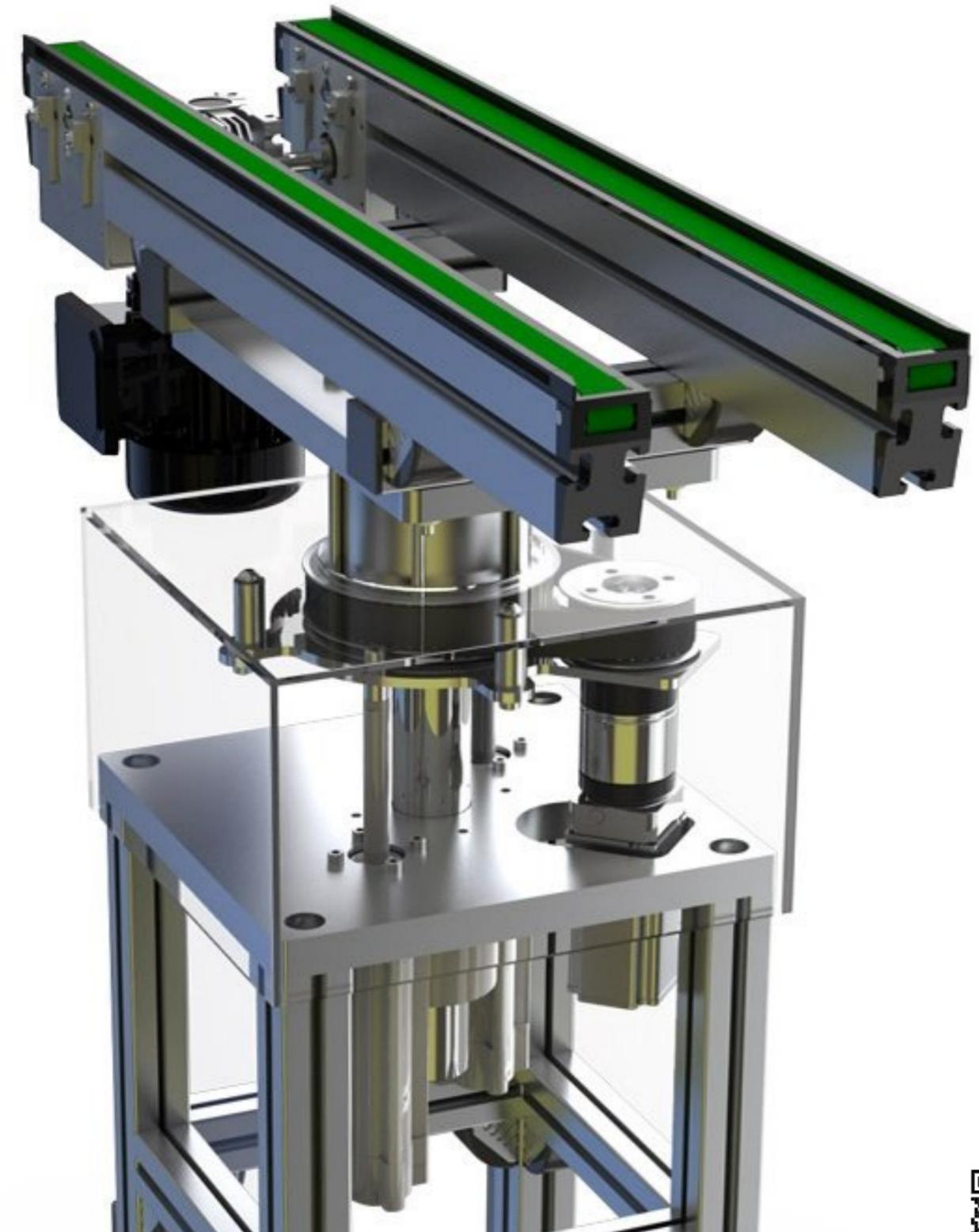


DART DROP & ROTATE TRANSFER UNIT

DART Drop and Rotate Transfer Unit is a revolutionary innovation for pallet and work piece handling designed to simplify layouts and reduce cost. This specialized hub has been specifically designed to maximize layouts and save complexity and cost. The DART system is a powered conveyor that can rotate from 1 degree to 360 degrees to accomplish almost any angle transfer in a system, including conventional right-angle transfers. The pallet can either rotate with it (changing orientation) or stay static (maintaining orientation). With this new design in your overall layout design toolbox, Glide-Line's DART will allow for endless opportunities and maximize assembly workspace.

Features:

- Servo driven rotation for smooth rapid and precise positioning
- The device does not violate the space between the conveyor strands so all of the standard conveyor mounted stops and accessories can be used
- Static center plate available to maintain work piece orientation when making right angle transfers
- Smooth pneumatic vertical motion with integrated adjustable air cushions



SECTION 4

ZERO CONTACT ZONED CONVEYOR

Glide-Line's Zero Contact Zoned Conveyor is a custom accumulation conveyor with an individual drive for every product zone. It eliminates product collision entirely while significantly improving efficiency and reducing wear and tear on the conveyor. By controlling each zone individually, we removed issues caused by product contact and have improved accumulation methods.



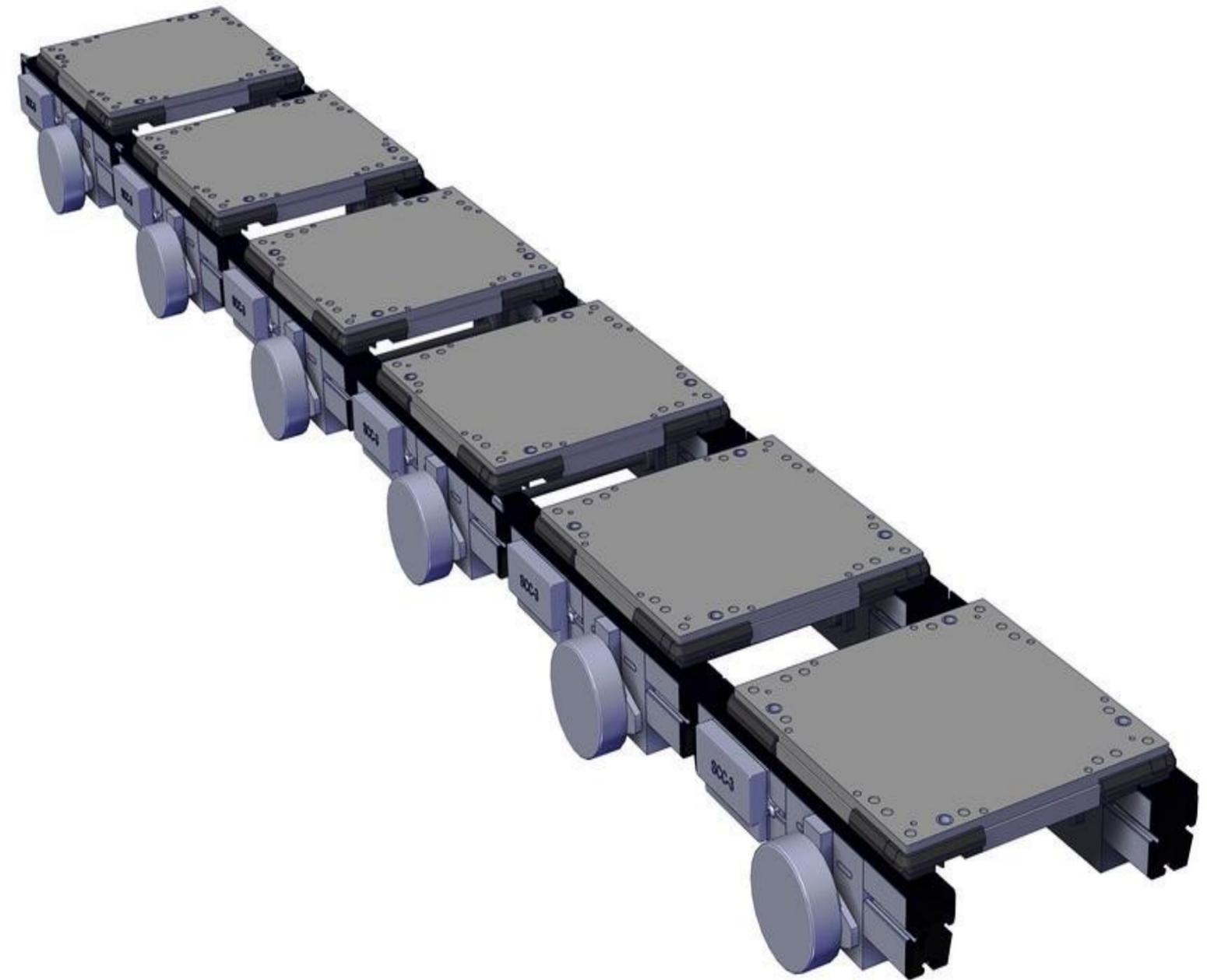


ZERO CONTACT ZONED CONVEYOR

Glide-Line's Zero Contact Zoned Conveyor is a gentler, more reliable and energy efficient conveyor solution by eliminating 100% of product contact and backpressure caused by accumulation. With traditional conveyors, there is often backpressure from upstream pallets, motors running continuously, unnecessary wear and tear on the entire system and continuously running the conveyors which wastes energy.

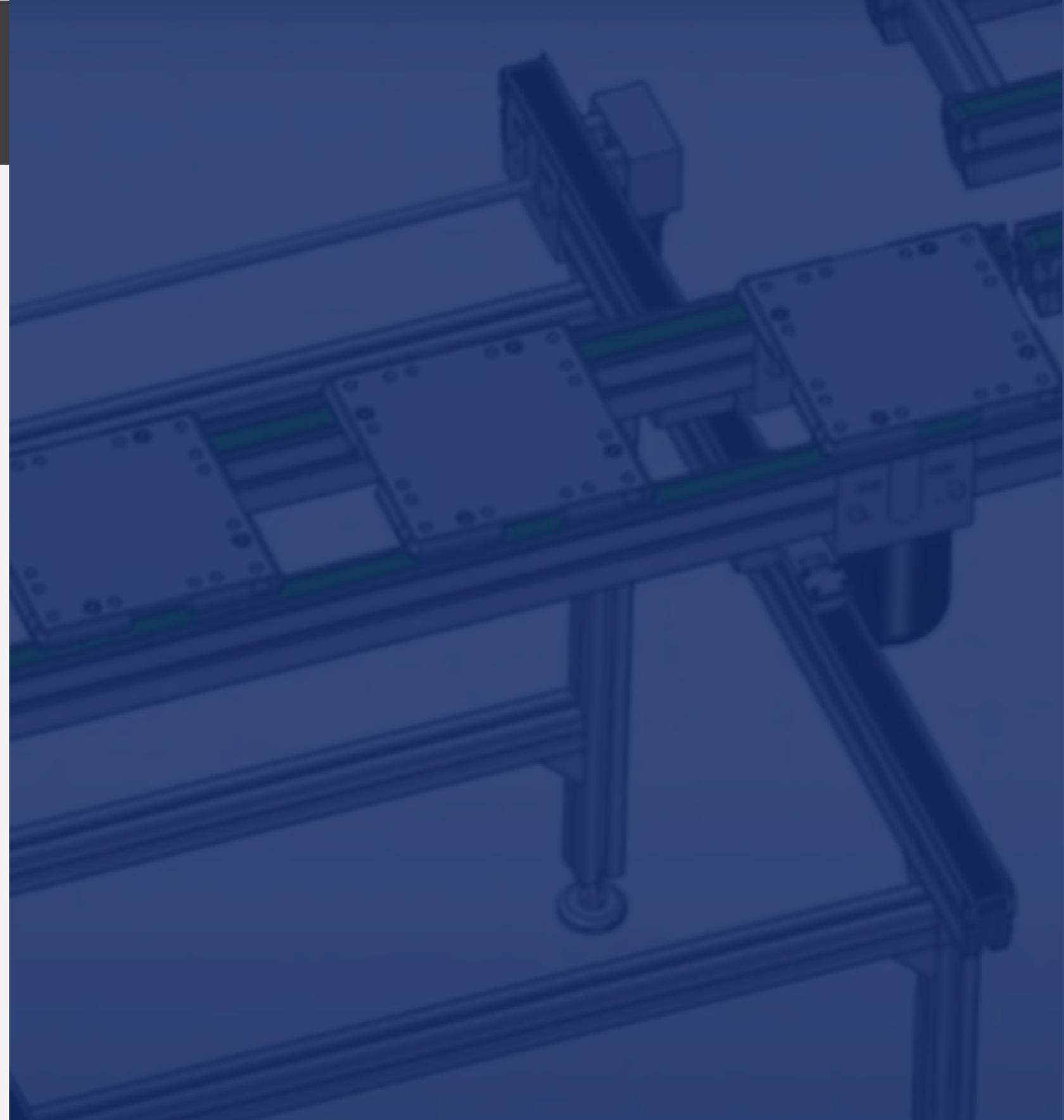
With Glide-Line's new Zero Contact Zoned Conveyor, motors only run when a product approaches and has a permissive from downstream, maintaining a gap between products so no backpressure is created. Accumulation zones are powered by a 24VDC brushless motor and can handle loads up to 200 lbs. each.

We have a resource library dedicated specifically to our Zero Contact Zoned Conveyor. Check it out (upper right-hand corner) to learn more!



GLIDE-LINE 360

The Glide-Line 360 is a highly configurable customizable conveyor/device solution. It can be configured to meet your clients' needs in literally hundreds of thousands of ways. It can shuttle, divert, merge, sort, stack, lift, lower, transfer, and turn – or any combination thereof – in one system. The best part? It doesn't cost additional time or money, because all the configurations come as standard solutions.

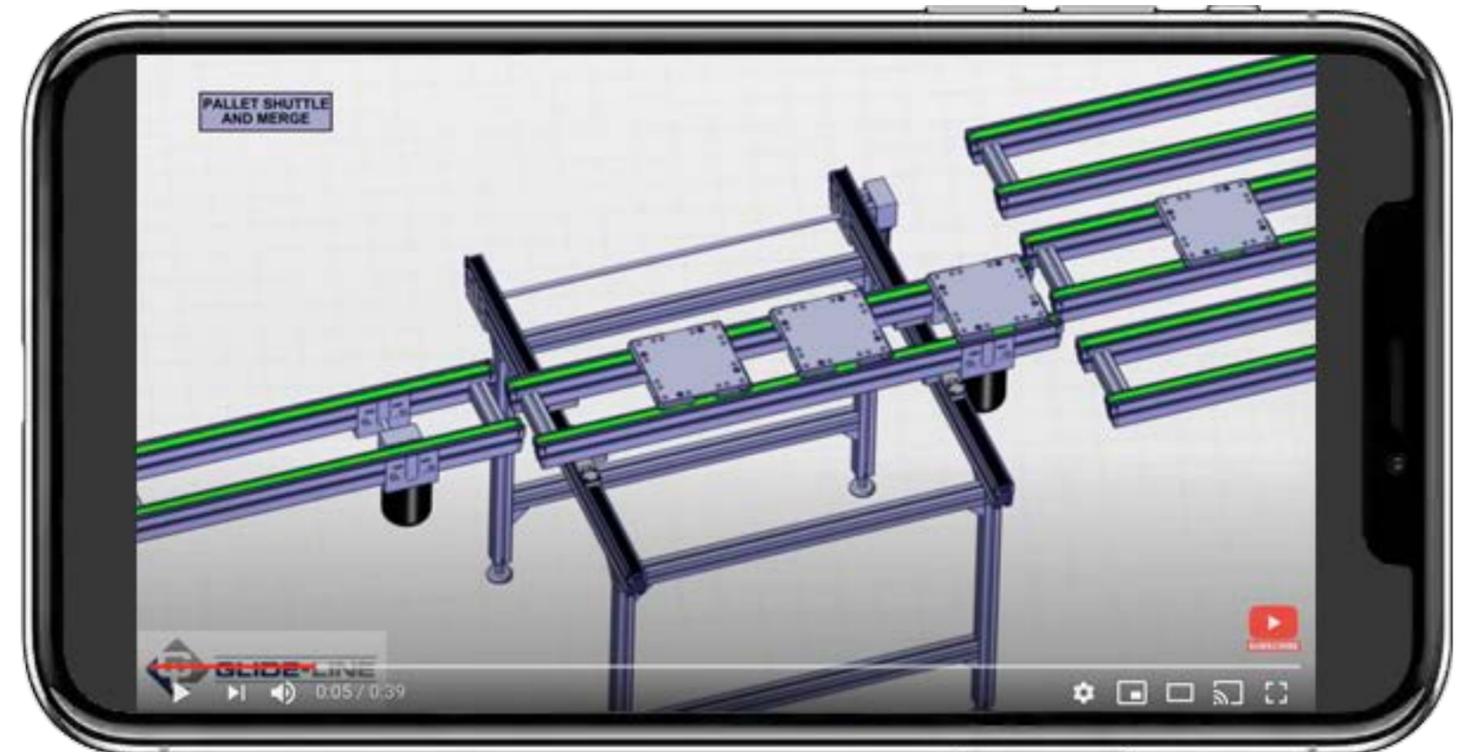


PALLET SHUTTLE

One of Glide-Line's 360 Flexible Conveyor Solutions:

The pallet shuttle allows traffic to be merged or sorted. For example, pallets can be merged from three lanes into one lane, or they can be sorted from one lane into three.

CHECK OUT THIS VIDEO ▶

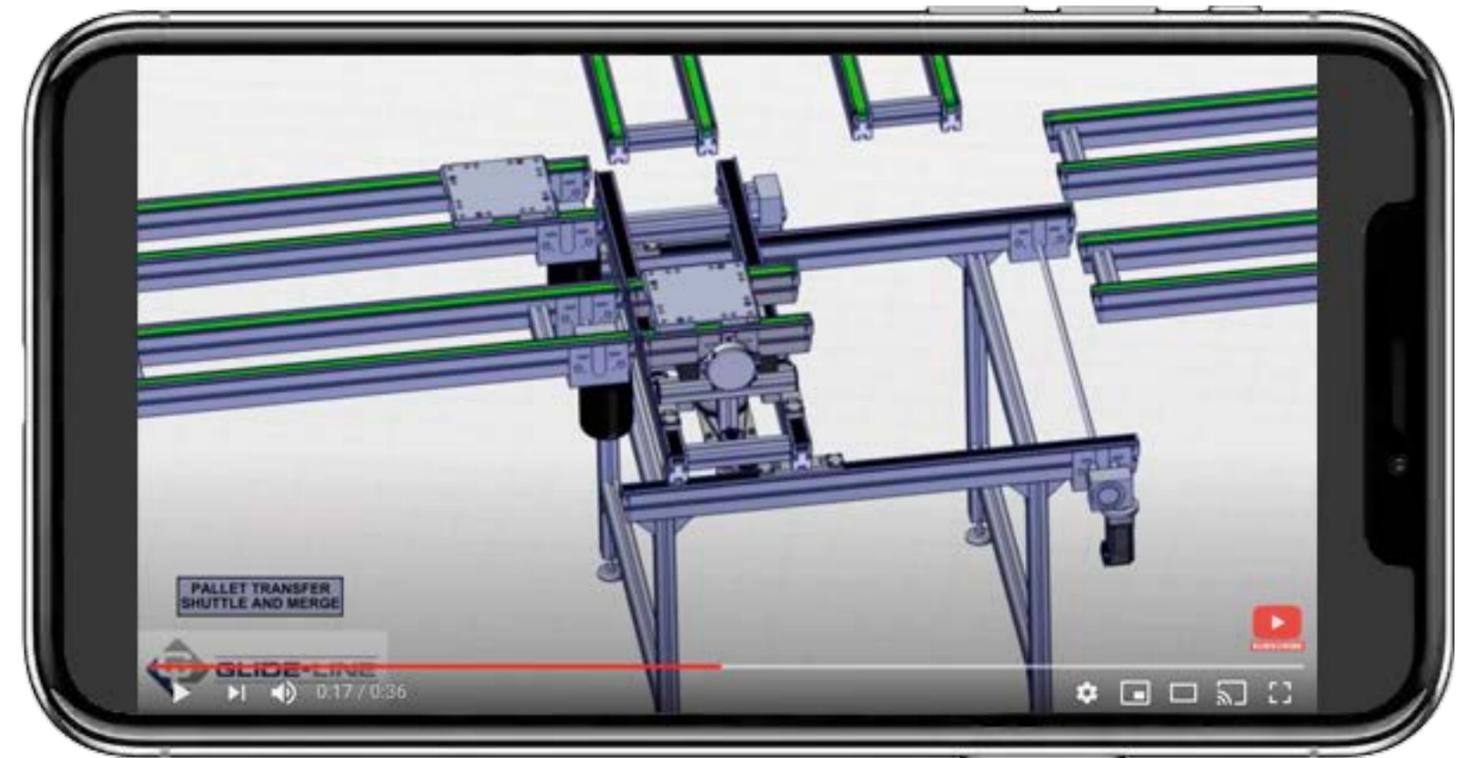


PALLET TRANSFER SHUTTLE & MERGE

One of Glide-Line's 360 Flexible
Conveyor Solutions:

The rotate & shuttle allows a pallet to be
moved from location to another while at the
same time manipulating the orientation of the
pallet.

CHECK OUT THIS VIDEO ▶

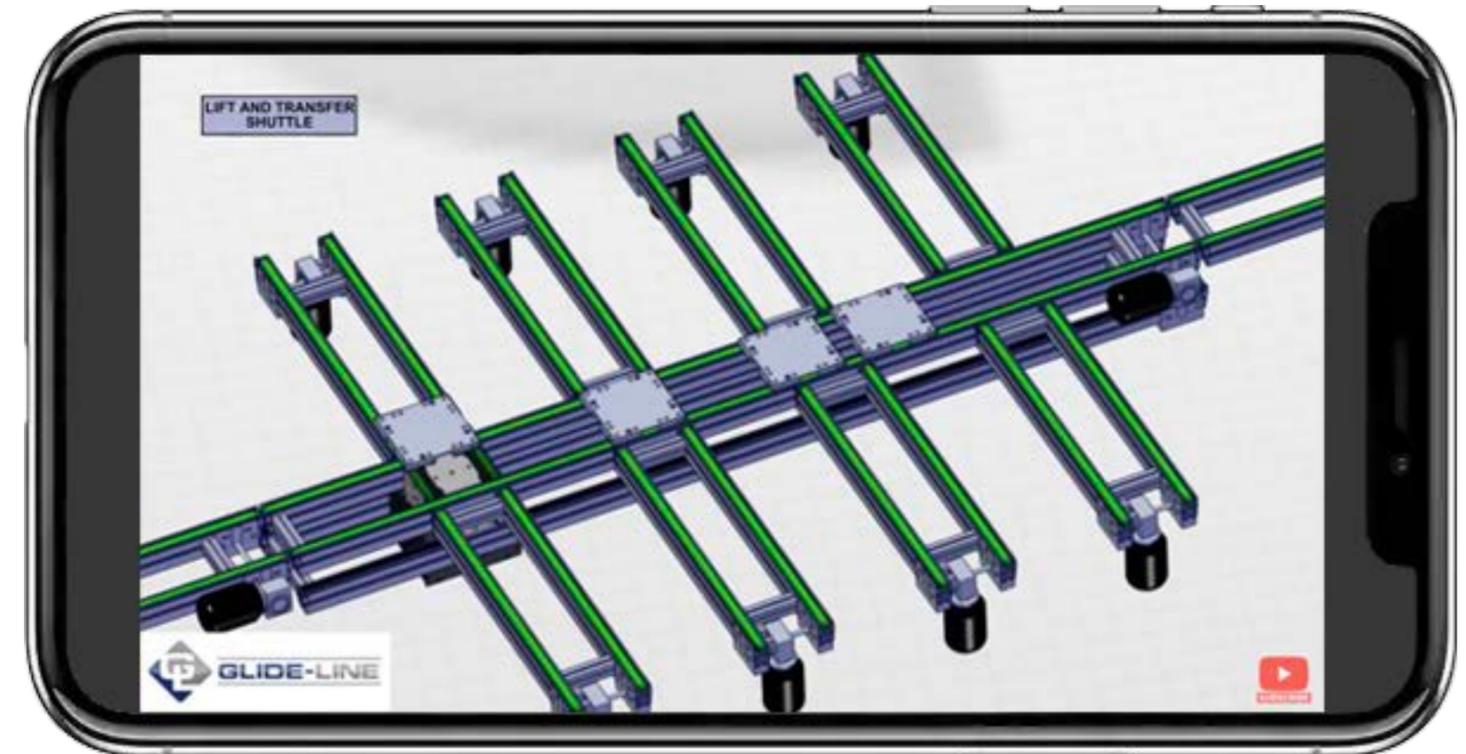


PALLET LIFT & TRANSFER SHUTTLE

One of Glide-Line's 360 Flexible
Conveyor Solutions:

This solution has a small lift and transfer
conveyor running the length of a trunk line. It
can accept product at one or more location
and drop off at multiple locations along the
same trunk.

CHECK OUT THIS VIDEO ►

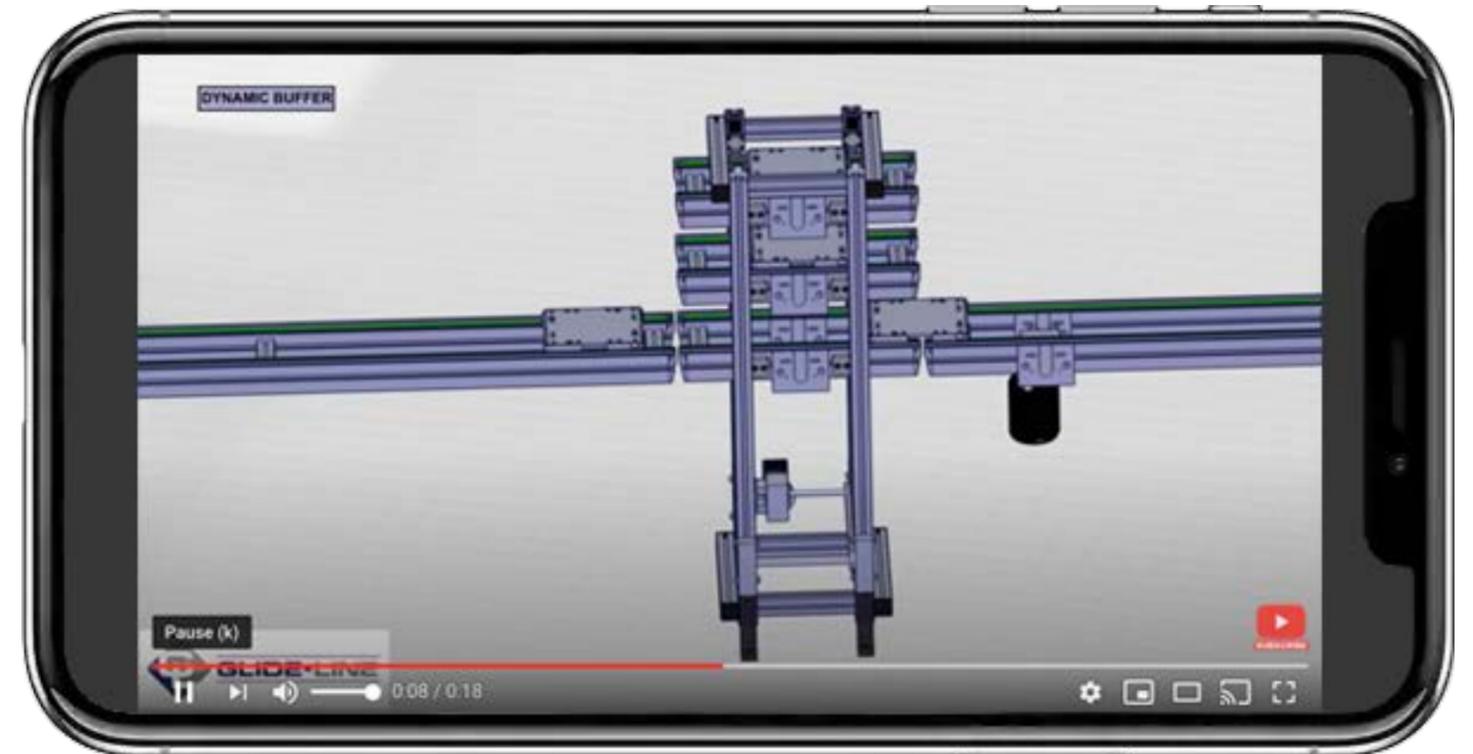


PALLET BUFFER

One of Glide-Line's 360 Flexible Conveyor Solutions:

A VTU base unit can be used to create multiple levels of conveyors or shelves for uses as a buffer system.

CHECK OUT THIS VIDEO ►

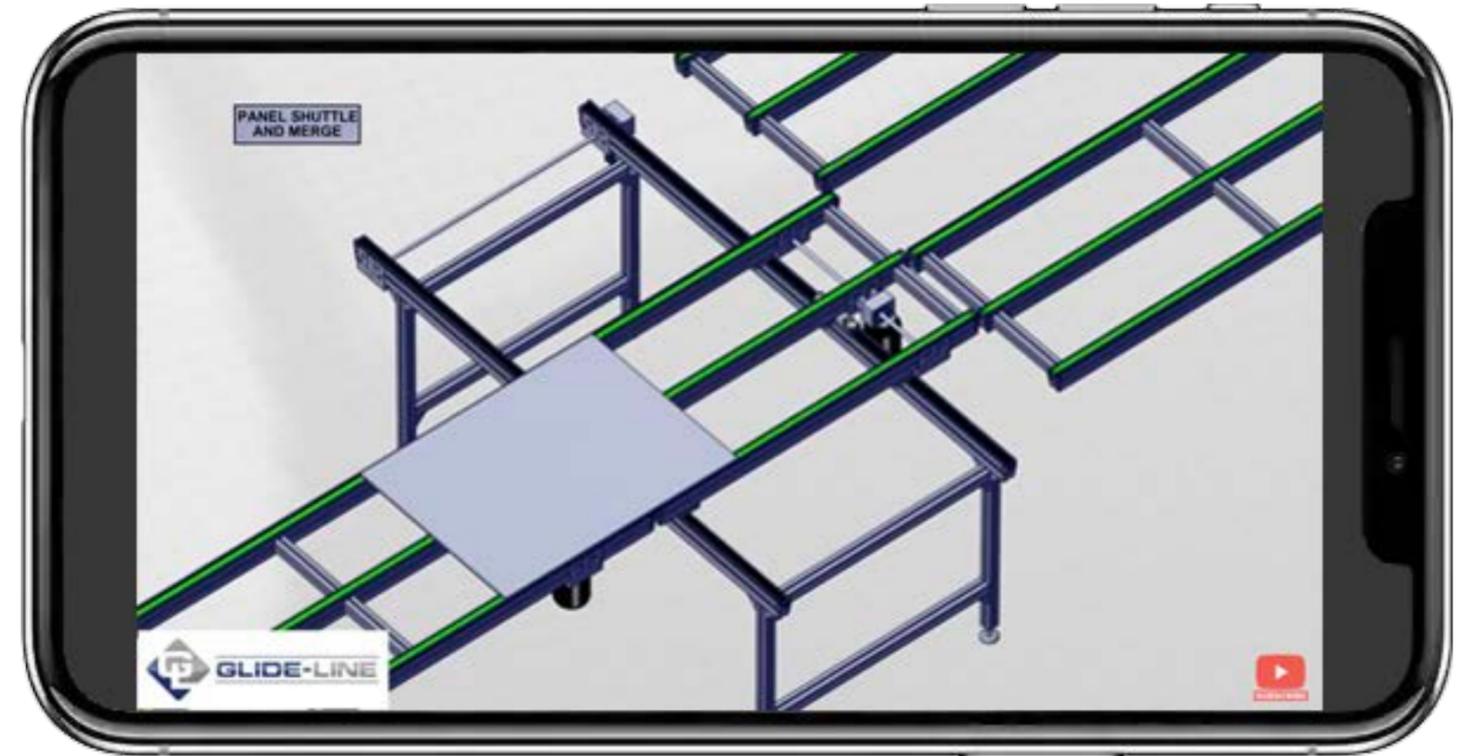


PANEL SHUTTLE

One of Glide-Line's 360 Flexible Conveyor Solutions:

This solution makes a section of conveyor mobile in a single axis so that panels can be received one or more conveyor lanes and distribute to other lanes.

CHECK OUT THIS VIDEO ►

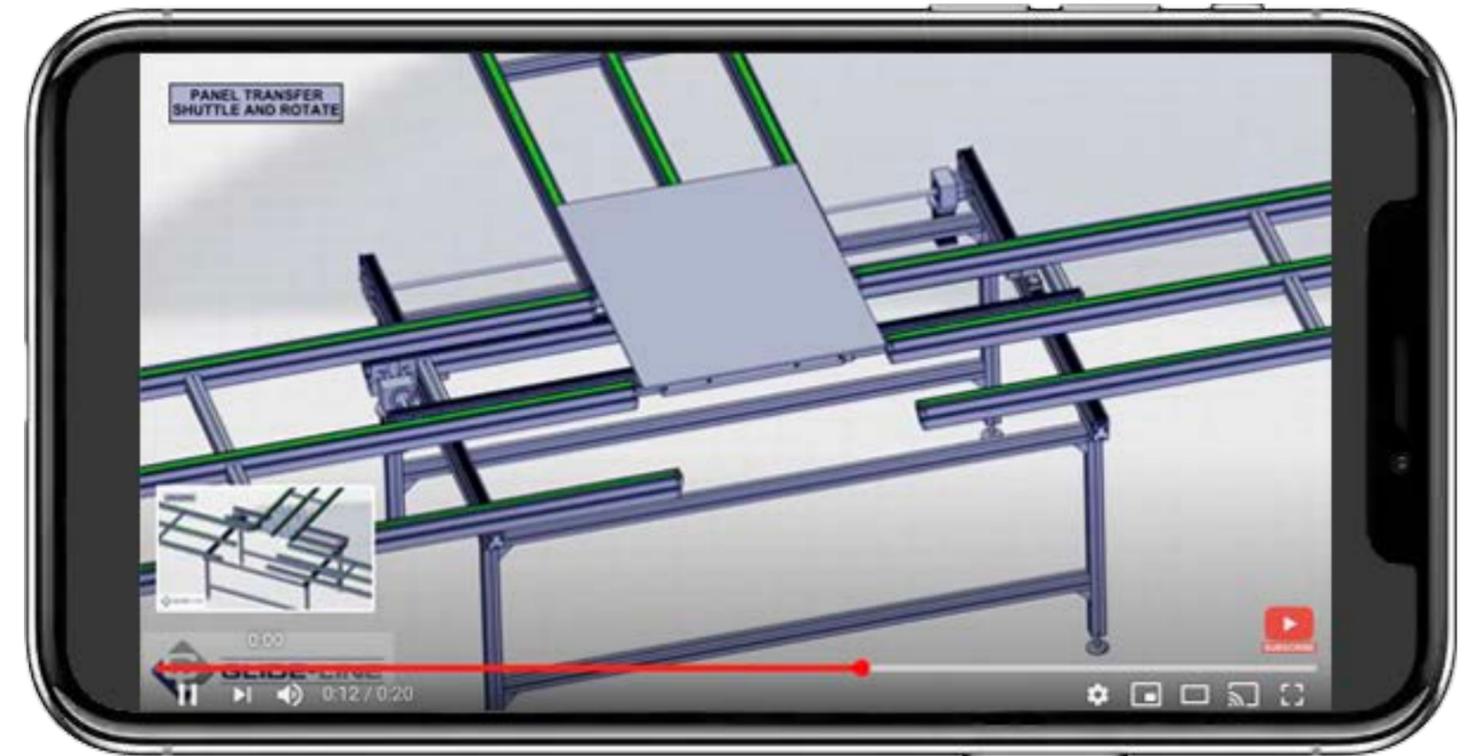


PANEL LIFT ROTATE SHUTTLE

One of Glide-Line's 360 Flexible
Conveyor Solutions:

The rotate & shuttle allows a panel to be
moved from location to another while at the
same time manipulating the orientation of the
panel.

CHECK OUT THIS VIDEO ►

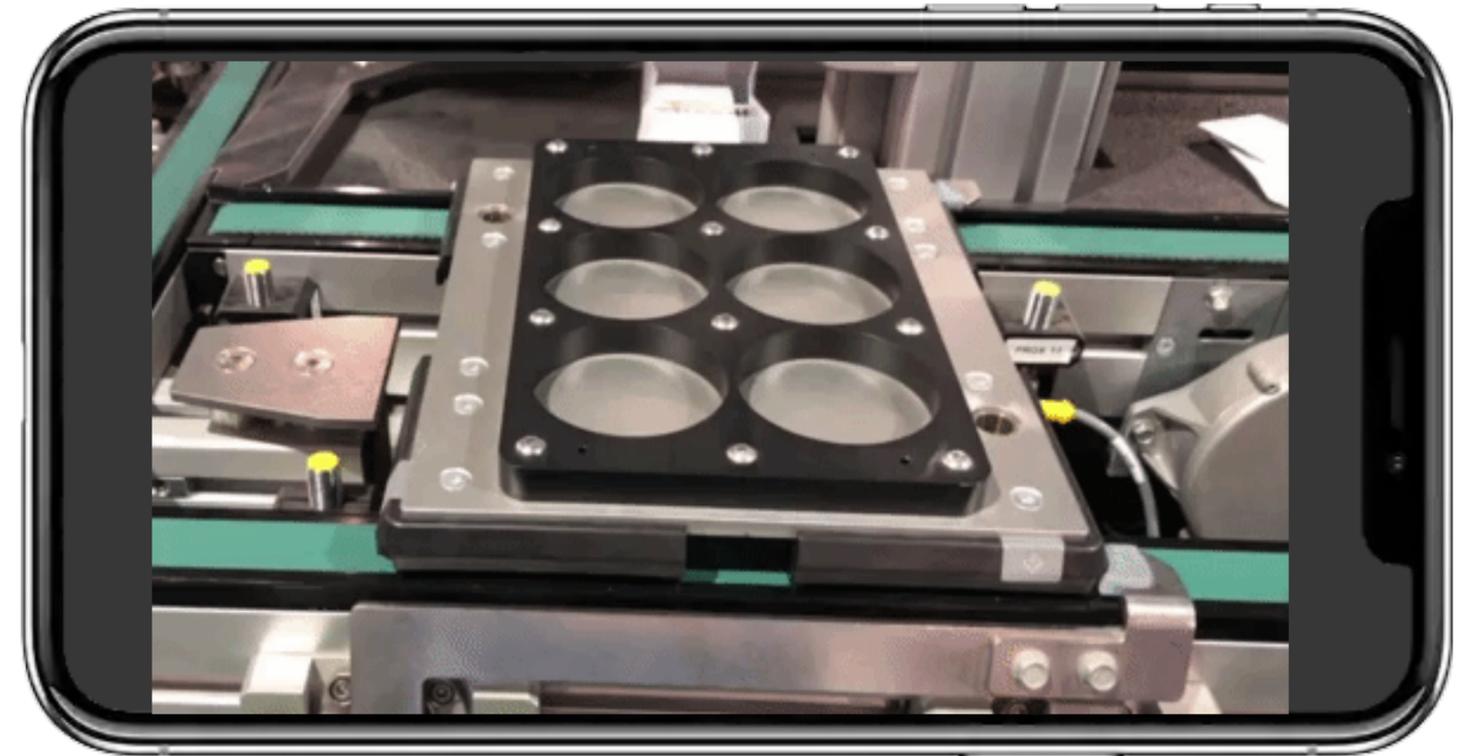


CENTERLINE ADJUSTABLE CONVEYOR

Our patent pending Centerline Adjustable Conveyor improves guide rail structural stability and adjustability by allowing the guide rails to adjust to your product. The purpose of the Centerline Adjustable Conveyor is to adjust the width of a conveyor – the dimension between conveyor strands.

- Adjust the width of a conveyor for a different sized pallet (or any product for that matter)
- This is in lieu of adjusting guide rails for a product run (or for various products)
- Conveyor beams have integral guides which are inherently more consistent and rigid than manually adjusted rails

CHECK OUT THIS VIDEO ►





ROLLER LIFT TRANSFER UNIT

Roller Lift Transfer Units utilize a series of rollers to lift and engage the payload perpendicular to the direction of flow. The lifting action raises the payload from the in feed conveyor so it can be moved onto the adjacent transport conveyor. The unit is bi-directional and can be set up to manage two, three, and four-way traffic control conditions.

Features:

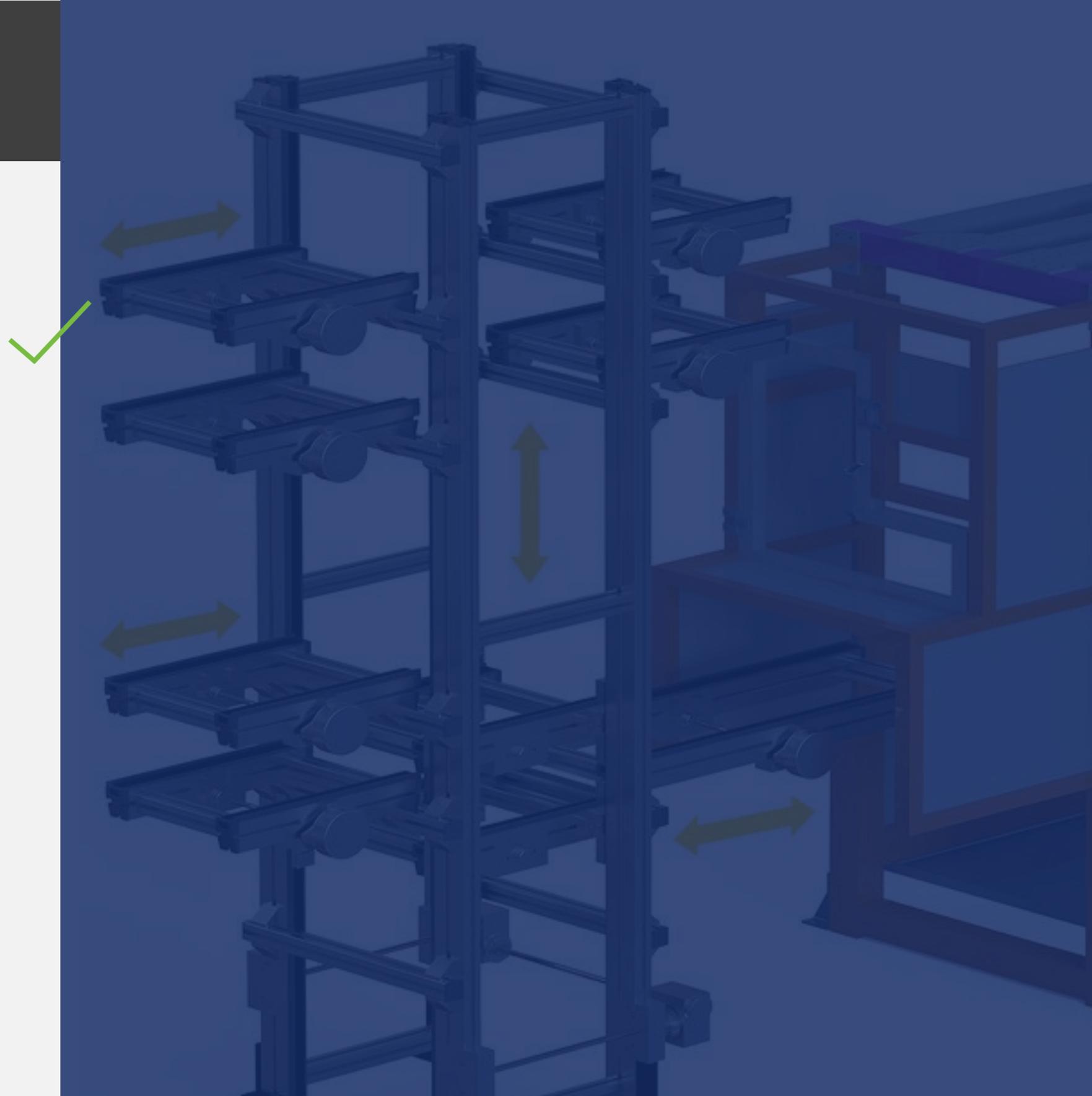
- Stand-alone module
- T5 timing style conveyor belts for positive drive
- Several belt materials available to service a wide range of pallet handling conditions
- Utilizes all ball bearing supported rolling elements for long maintenance free operation
- Certified for use in clean room environments
- Antistatic materials available to suit operation in static sensitive areas or with static sensitive payloads
- Highly configurable



SECTION 6

VERTICAL TRANSPORT UNITS

Glide-Line offers several vertical lift conveyor application options. These VTUs can be applied to solve unique challenges in your conveyor automation system design. For instance, you can reduce floor space for your conveyor system, utilize the precision aspect of our VTU in interesting concepts, and increase automation system throughput with these vertical lift conveyor applications. And, at Glide-Line, these VTUs are part of our standard product offering of automated conveyor solutions.





DUAL AXIS VTU

A dual lift VTU configuration has two (2) independent actuators that enable two Z-axis movements at a time and two independent decks. This can be used many ways.

Examples:

- Decouple an upper and lower transfer
- Sorting product to / from multiple in-feeds and discharges
- Perform an operation on one product while keeping the VTU in operation for others

Options:

- Can be driven with any electric motor – AC (Motor Brake Required), stepper / servo, etc.
- Complete flexibility of geometry (size, lift stroke, etc.)





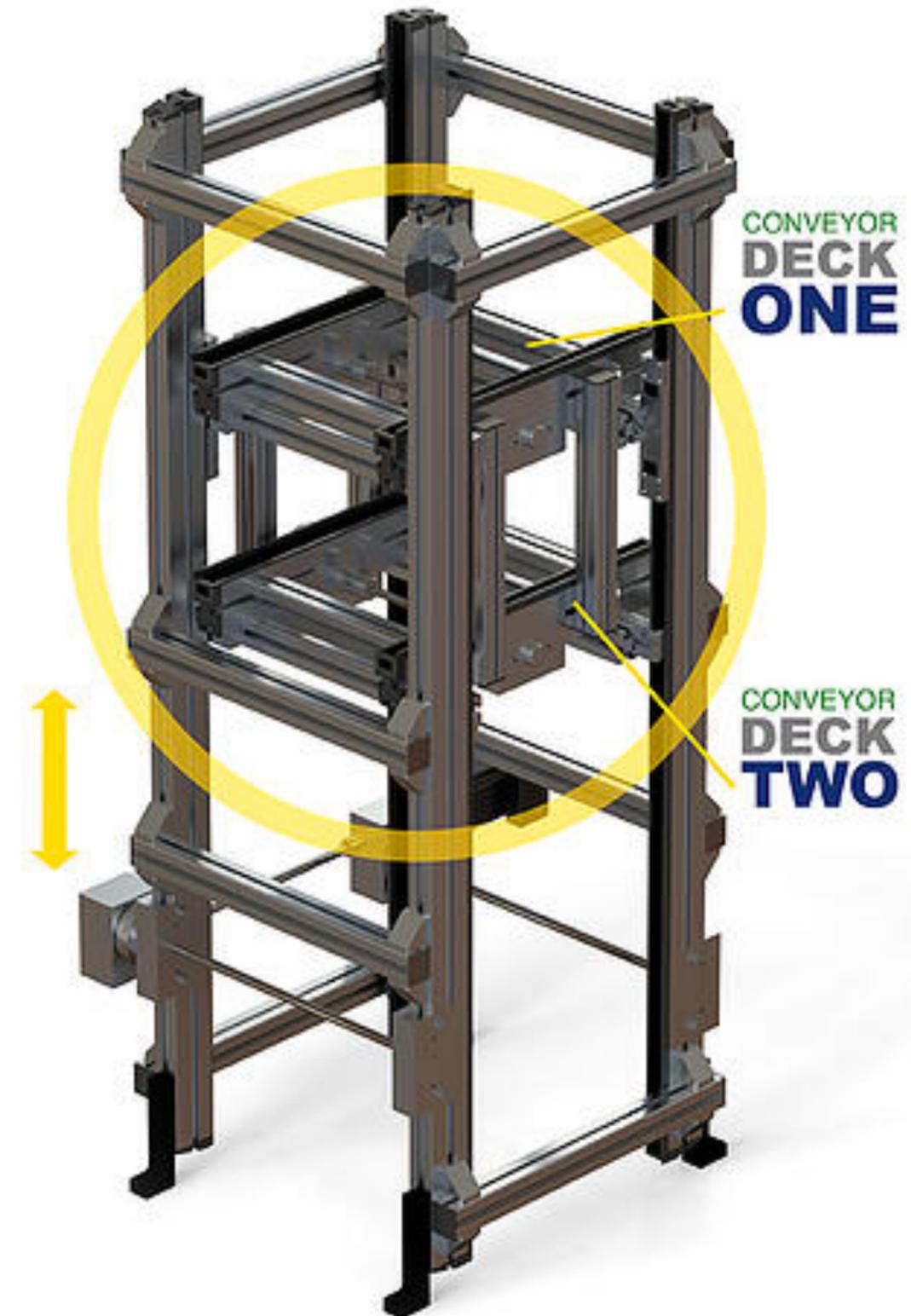
DUAL DECK VTU

Allows for vertical transfer of product on two transport conveyors simultaneously.

- A standard Vertical Transfer Unit with two transport deck conveyors
- Provides the ability to transport twice the amount of product vertically
- This is especially useful for processes requiring fast-paced throughput
- The number of transport decks can be increased to shift as many products vertically as desired

Options:

- Can be driven with an electric motor – stepper / servo
- Quantity of transport deck conveyors can be added as needed
- Complete flexibility of geometry (size, lift stroke, etc.)





LOW-COST MINI VTU

The Low-Cost Mini VTU was built for those who are looking for creative space use and cost savings.

Features:

- A simple short Vertical Transport Unit (VTU) for limited vertical stroke applications
- Pneumatically actuated
- 112mm clearance for pallet and product on bottom level

Options:

- Guarding





TILTING DECK VTU

Allows for vertical transfer of product as well as tilting the conveyor deck up to 30° to allow for flexible access to the product being transported.

- A standard Vertical Transfer Unit with the addition of a tilting transport deck conveyor
- Provides the ability to tilt the product towards a robot or operator for improved access to the product
- Tilt feature is controlled by the VTU servo/motor which allows for the transport deck conveyor to tilt up to 30°. Deck is hinged on one side and loose on the other, allowing different Z-axis movements to provide various tilting angles

Features:

- Step-servo control of the z-axis allows maximum tilting flexibility.
- Various sizes, angles and access points are all possible





MULTIPLE POSITION VTU

Allows for vertical transfer of product from one or more in-feed conveyors to multiple discharge conveyors.

- A standard Vertical Transfer Unit that feeds multiple input and output conveyors
- The total number of infeed and outfeed conveyors can be increased, as needed, to maximize product flow.
- Servo-driven elevator allows for multiple position stopping with precision movement
- The number of transport decks can also be increased to shift as many products vertically as desired.

Options:

- Can be driven with an electric motor – stepper / servo
- Quantity of infeed, outfeed, and transport deck conveyors can be added as needed
- Complete flexibility of geometry (size, lift stroke, etc.)





PASS THROUGH

VTU

The vertical transfer unit lifts product off the main line to prevent stoppage of product flow.

- A Dual Deck Vertical Transport Unit that elevates product above main line to allow work to be done from above.
- The bottom transport deck replaces the top when shifted vertically to allow downstream product to bypass and move ahead
- Useful for performing the same process at multiple stations without disturbing product flow.
- Servo-driven elevator allows precision movement and stoppage

Options:

- Can be driven with an electric motor – stepper / servo
- Complete flexibility of geometry (size, lift stroke, etc.)





PNEUMATIC VTU

Pneumatic Vertical Transfer Units (VTUs) transfer pallets from one level to another. This unit utilizes a section of transport conveyor as the platform and is actuated up / down (z-axis) by an electric motor - typically stepper or servo. By driving the VTU with a servo or stepper, the VTU can be motion controlled for both smooth acceleration / deceleration as well as multiple stopping positions. The VTU platform conveyor can operate in either direction, enabling the VTU to accept and discharge pallets from both sides. The unit is supplied as a stand-alone module.

Features:

- Pneumatic (air) actuated Z-axis travel
- Stand-alone module
- Adjustable end of travel air cushions on vertical motion
- Multi-directional powered elevator platform
- Ability to provide smooth motion control due to electric drive
- Ability to stop at multiple levels with accuracy

Options:

- Guard package
- Step-Servo motor package





BYPASS LIFT VTU

Two independently powered lift decks combined into one space to provide product bypass above the main line while simultaneously allowing undisturbed product flow to multiple positions.

- Two standard Vertical Transfer Unit decks contained within a single VTU footprint
- One elevator performs bypass to lift product above the main line
- The second elevator can simultaneously shift to multiple positions to allow product flow to continue downstream or to a return conveyor
- Servo-driven elevator allows for multiple position stopping with precision movement
- Especially useful in tight workspaces to allow multiple tasks to be performed within the same workspace

Options:

- Can be driven with an electric motor – stepper or servo based upon the application needs
- Complete flexibility of geometry (size, lift stroke, etc.)





RACK FEEDER

Allows for vertical transfer of product to be stored on multiple independently driven stacked conveyors.

- A Vertical Transport Unit feeds product to a rack of independently driven conveyors.
- Maximum amount of product can be stored in a small footprint
- Independently-driven stacked conveyors allow for quick storage and retrieval processes to decrease cycle time
- Servo-driven elevator allows precision movement and stoppage to multiple positions

Options:

- Can be driven with an electric motor – stepper / servo,
- Quantity of stacked conveyors can be increased as needed
- Complete flexibility of overall geometry



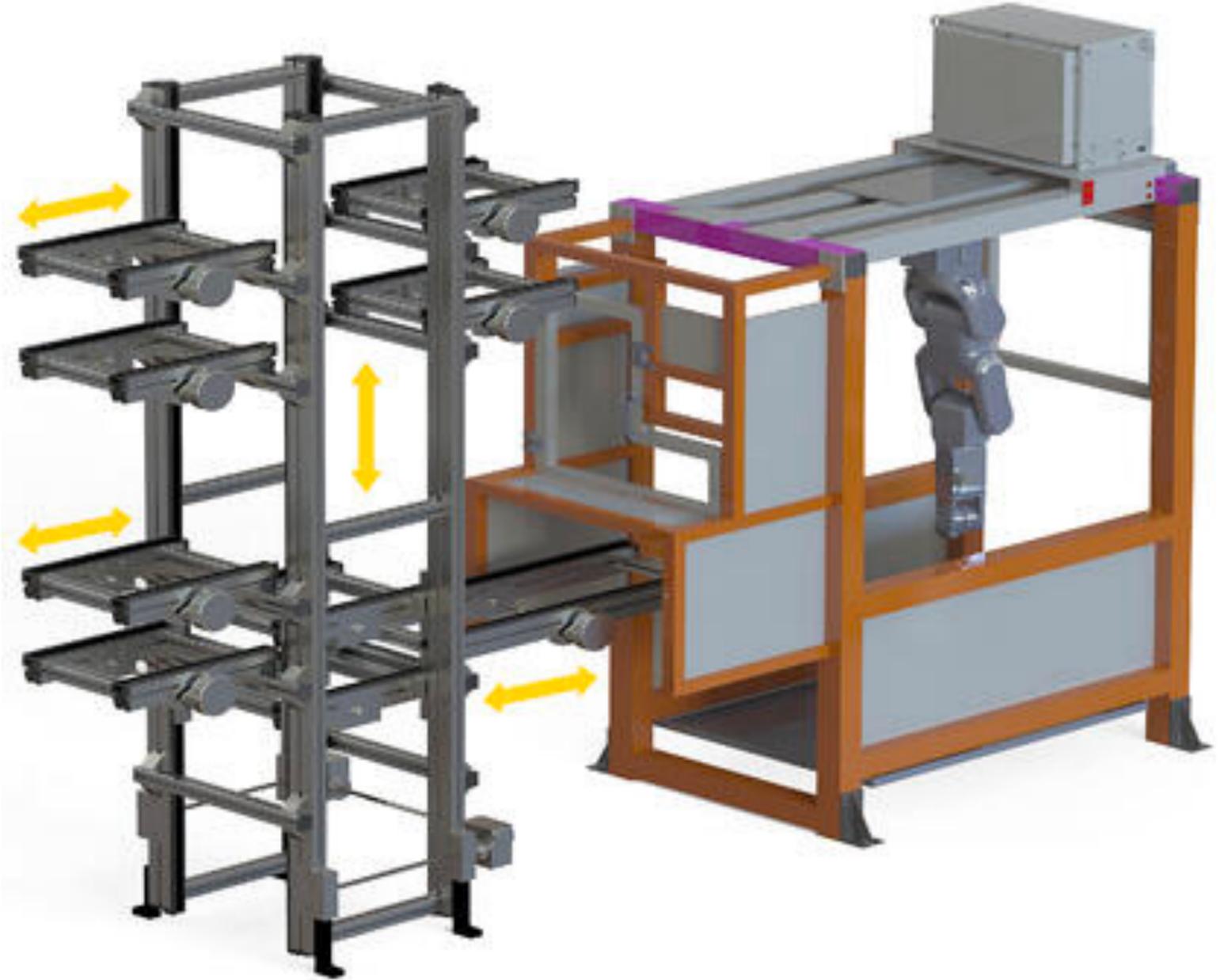


MACHINE TENDING SOLUTION

A vertical sortation and storage device to create a buffer of pallets either upstream or downstream (or both) of a machine. Allows an operator to load up a machine with unfinished goods and automatically load parts and can even simultaneously unload parts. This machine tending solution can greatly reduce operator involvement and keep your valuable machines running while you attend to other tasks.

Features:

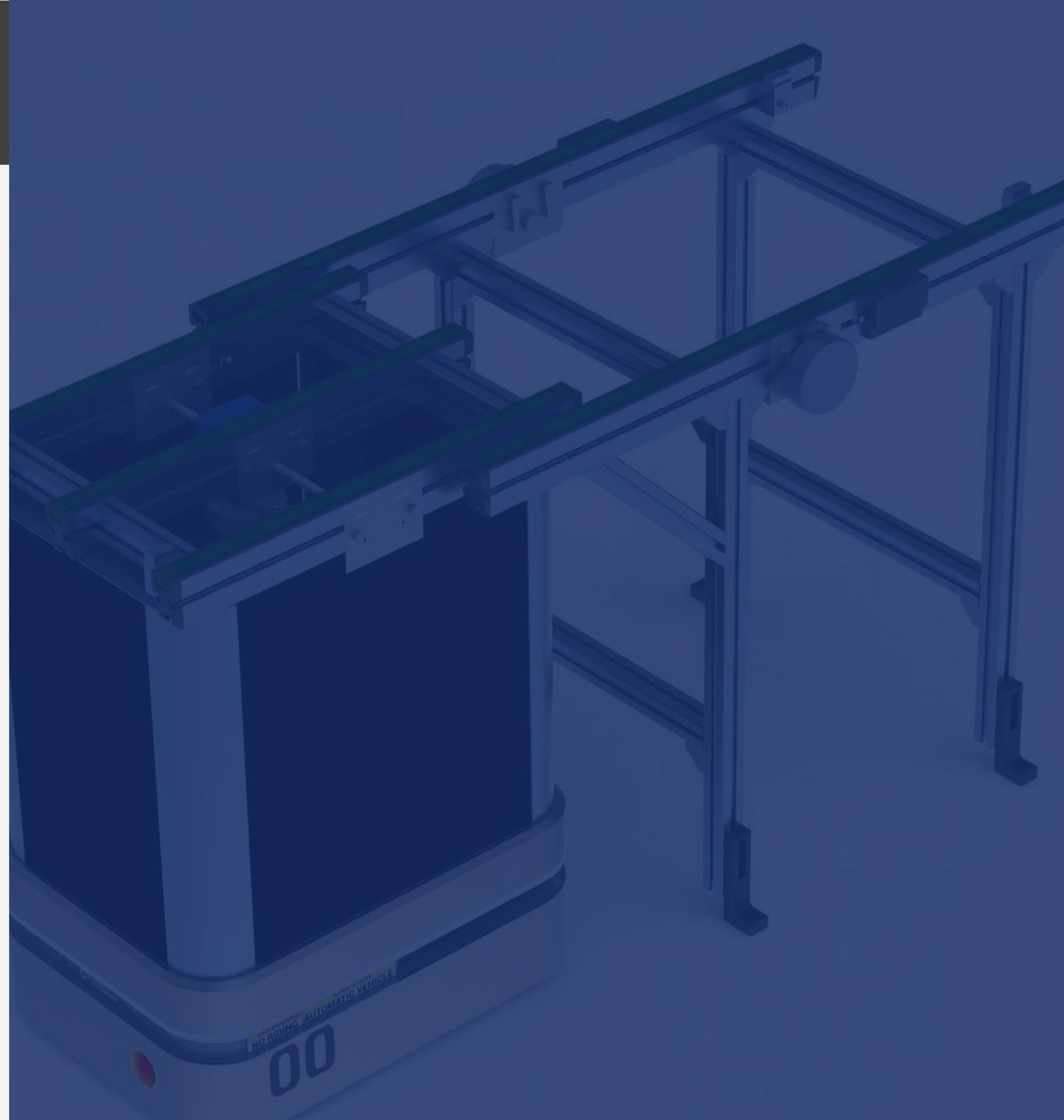
- Can be driven with any electric motor – AC, stepper / servo, etc.
- This basic concept can be used as an interim buffer/storage concept
- Is infinitely flexible with levels, sizing, etc.
- Servo based for speed, precise motion control and accuracy



SECTION 7

CONVEYOR TOPPER SOLUTIONS FOR AMRS

Our customizable AMR or AGV conveyors are lightweight and allow for added flexibility. Creative conveyor applications for autonomous mobile robot vehicles are a natural solution for your customer's AMR integration challenges.

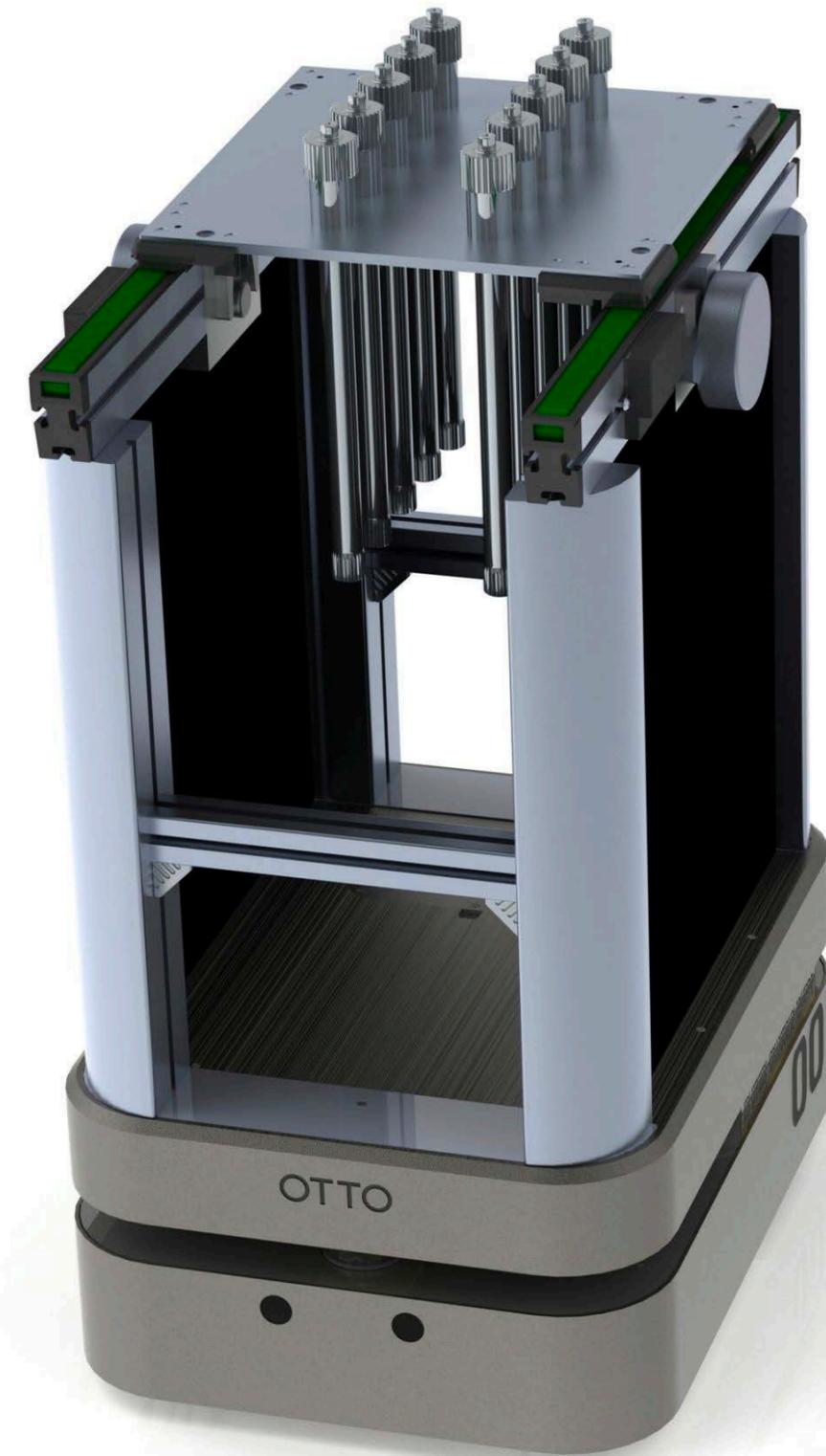




CONVEYOR TOPPER SOLUTIONS FOR AMRS:

OPEN CENTER DESIGN

The Open Center Design Solution enables an AMR to transfer product that has a unique geometric design, including a vertical hanging element.

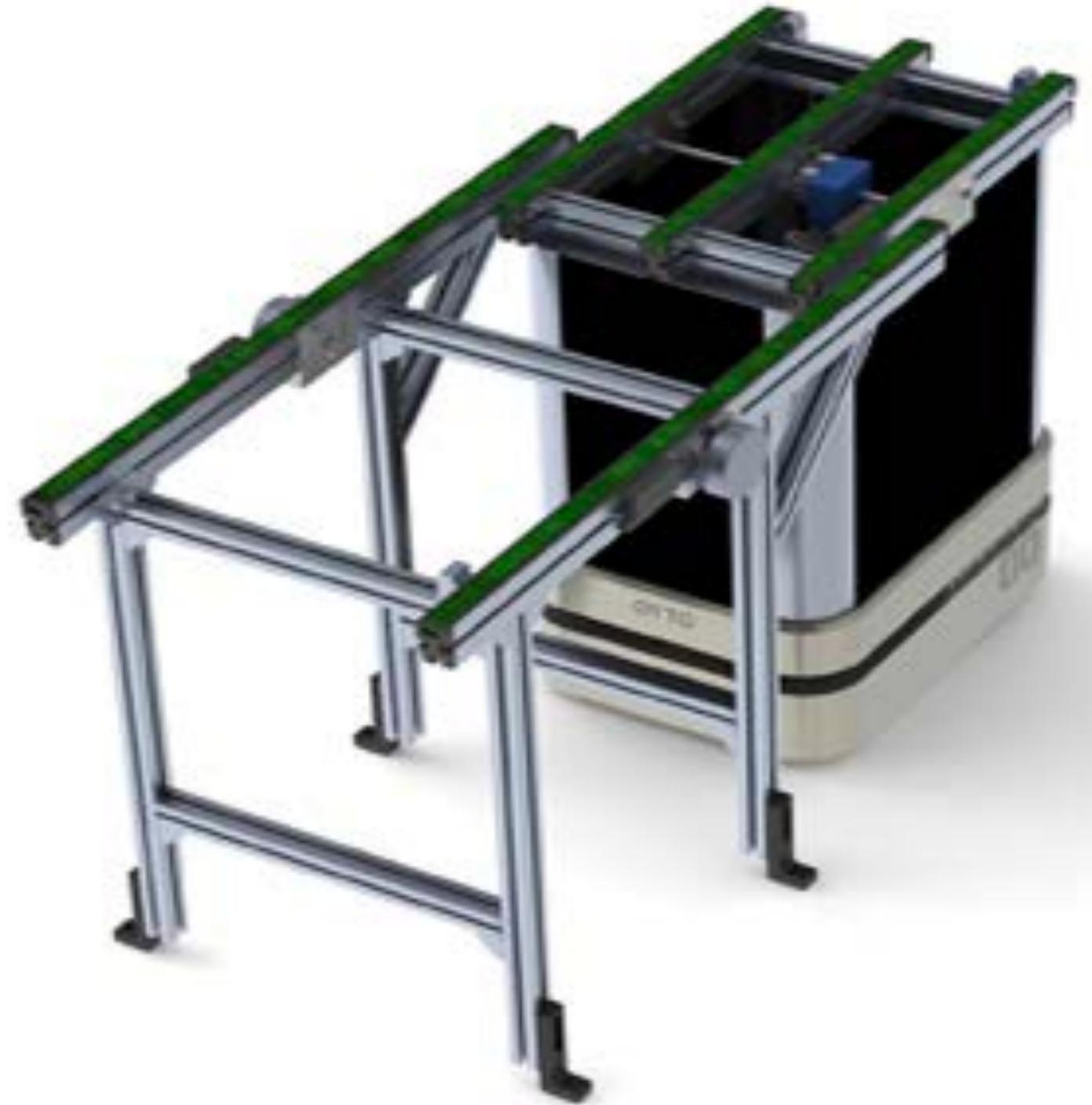




CONVEYOR TOPPER SOLUTIONS FOR AMRS:

SMALL DIAMETER OR OVERLAPPING TIGHT TRANSFERS

The Small Diameter or Overlapping Tight Transfers Solution used to transfer smaller products; the conveyor “strands” overlap at an interface point to provide seamless transfers.





CONVEYOR TOPPER SOLUTIONS FOR AMRS:

ROTATING **CONVEYOR**

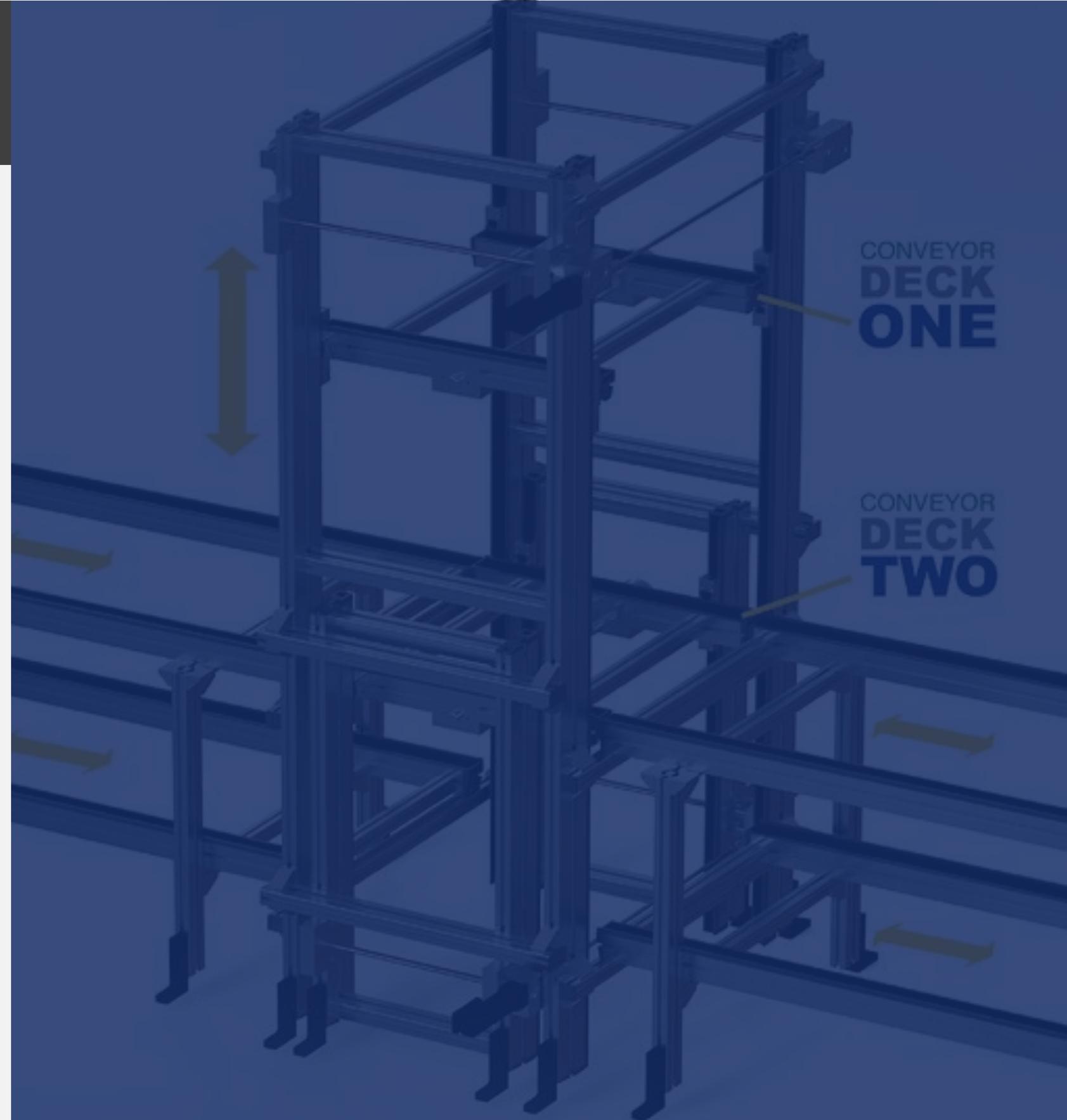
The Rotating Conveyor Solution is designed to rotate 360 degrees, this base rotation platform enables conveyor or product rotation on a conveyor mounted to an AMR.



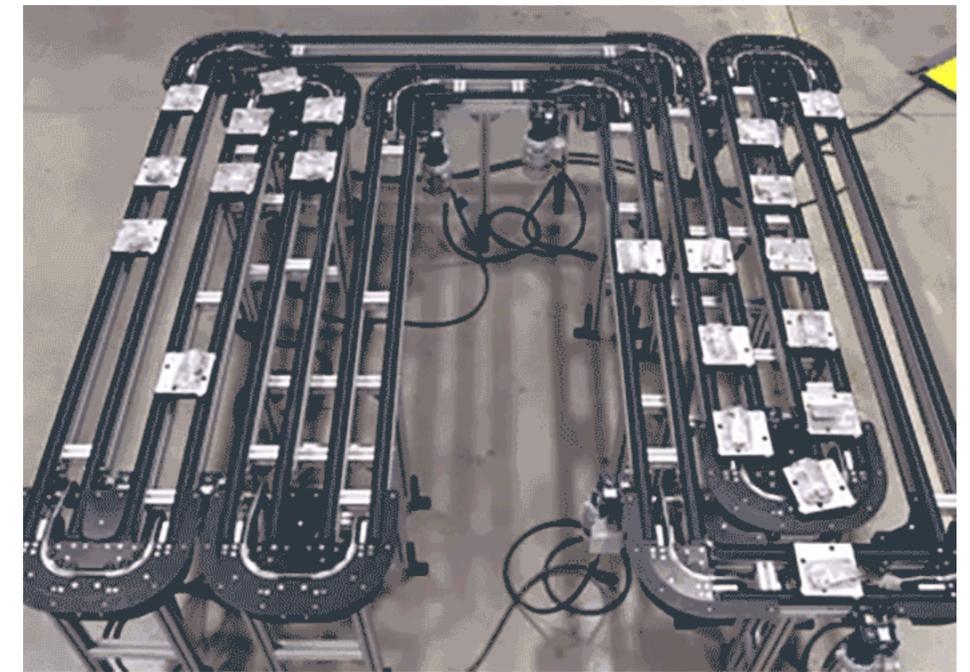
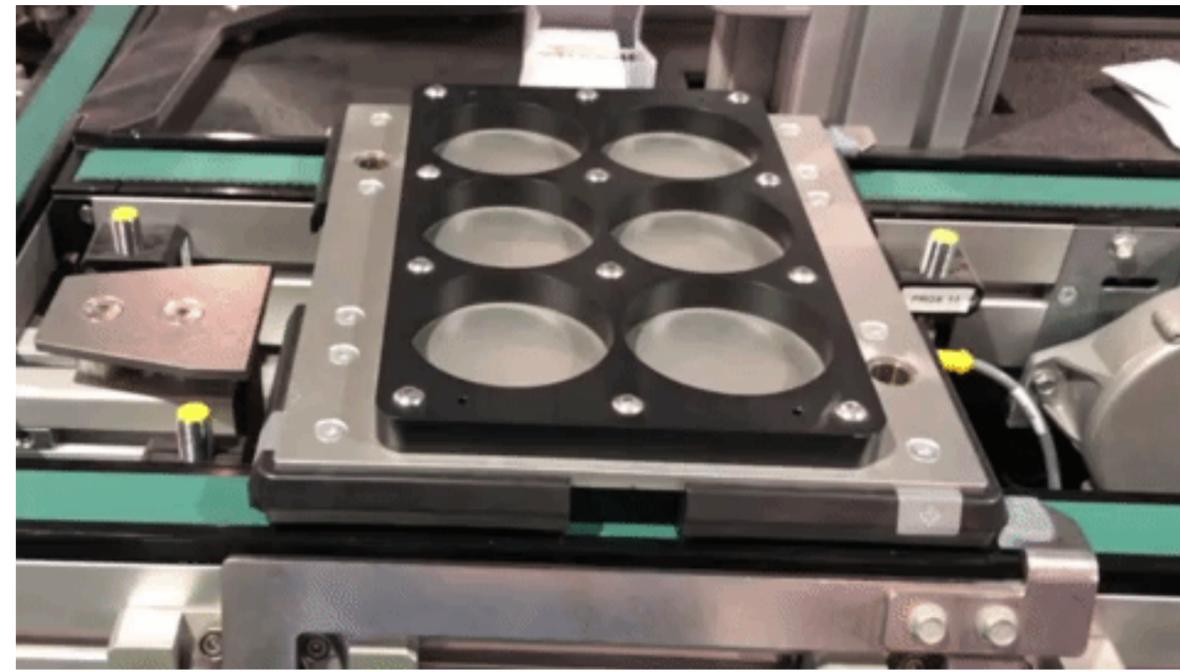
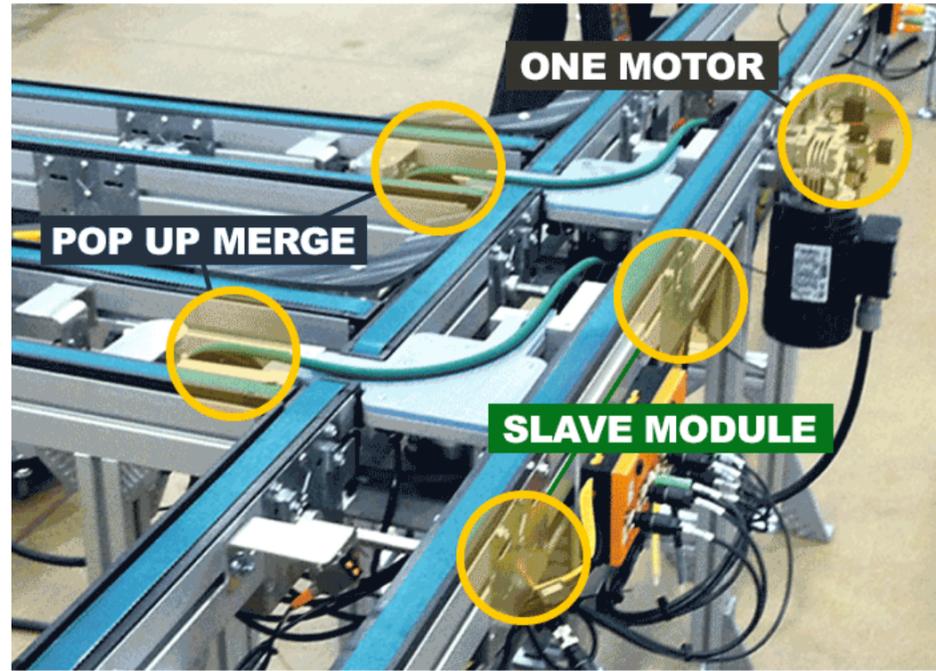
SECTION 8

CUSTOMIZED SOLUTIONS GALLERY

Our catalog is ever expanding. Feel free to check out some of the options that follow, but know that we are willing to create a solution that solves your exact problem or need. In fact, that is how many of the products you will see on our site originated - out of necessity to solve our customer's unique project challenges.



We are willing to create a solution that solves your exact problem or need, check out our Customized Standard Solutions & chat with us about your project & system's pain points

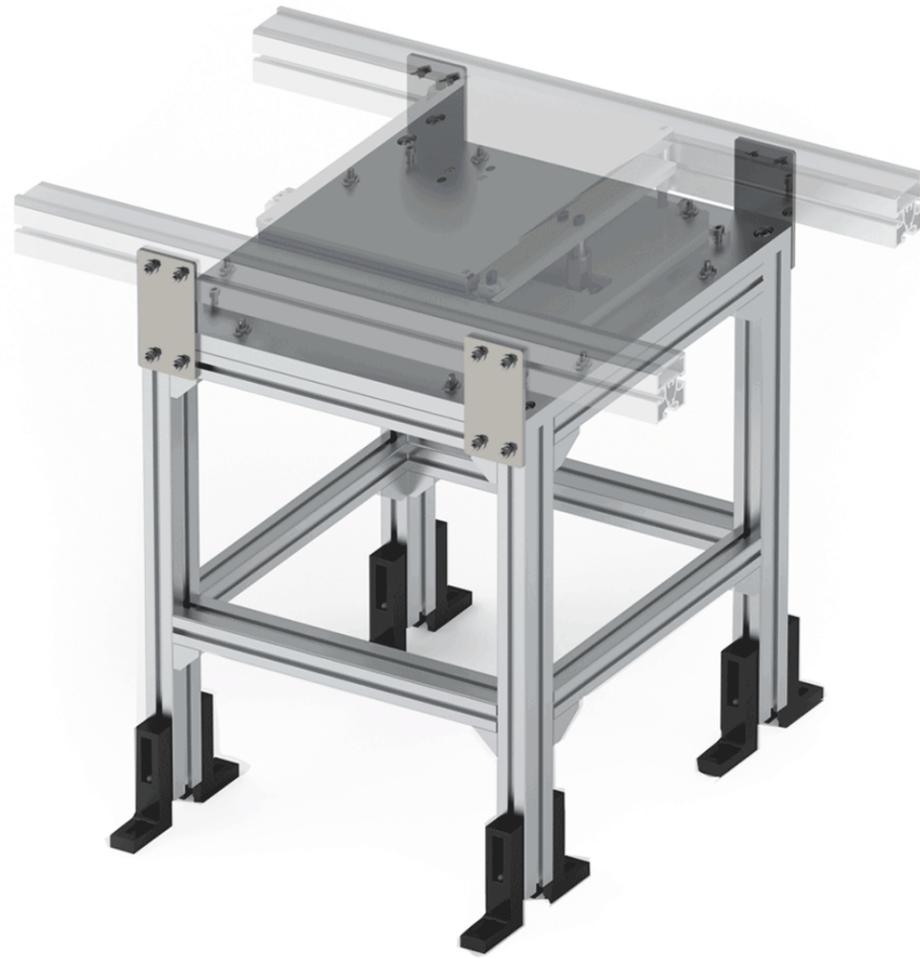


✓ **MECHANICALLY
SLAVE DRIVEN
CONVEYOR
SOLUTION**

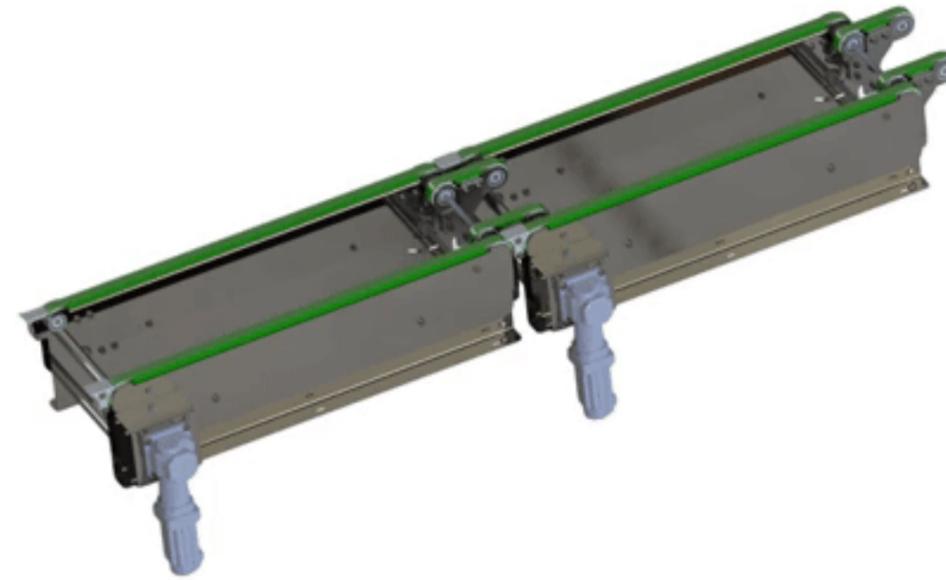
**CENTERLINE
ADJUSTABLE
CONVEYOR**

**SERPENTINE
BUFFER
CONVEYOR**

We are willing to create a solution that solves your exact problem or need, check out our Customized Standard Solutions & chat with us about your project & system's pain points



**PEDESTAL
MOUNTING
SUPPORT SYSTEM**



✓ **TRANSFER BRIDGE
CONVEYOR
SOLUTION**



✓ **DIRECT PRODUCT
HANDLING
CONVEYOR**

We are willing to create a solution that solves your exact problem or need, check out our Customized Standard Solutions & chat with us about your project & system's pain points



✓ **POP-UP RIGHT
ANGLE
TRANSFER**



✓ **DUAL POP-UP
TRANSFER**



✓ **OPEN CENTER
DESIGN**

MECHANICALLY SLAVE DRIVEN CONVEYOR SOLUTION

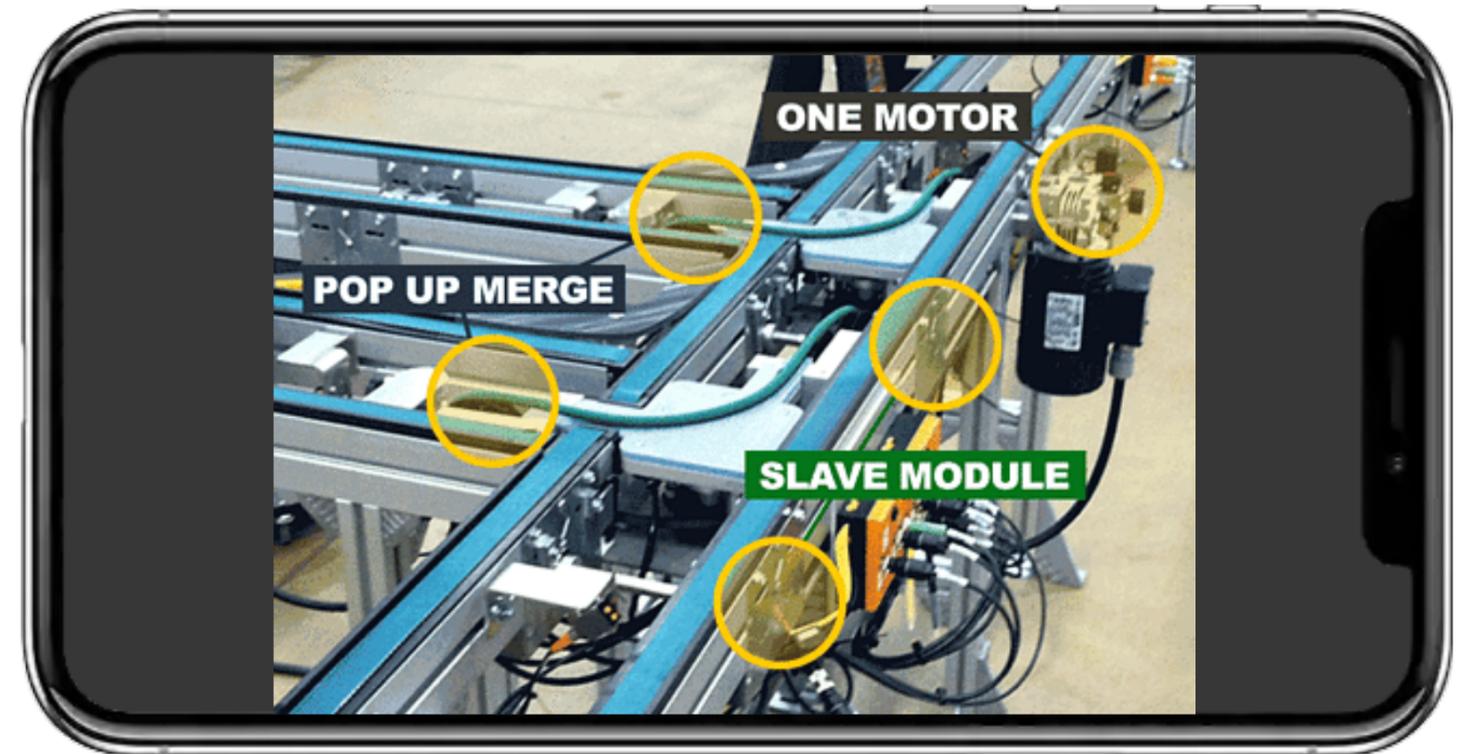
We can drive four different conveyors off a single motor. This saves mechanical and electrical hardware cost.

- The goal for this system is to maximize a single motor's capability by transferring power through four conveyors
- One motor / Two pop up merges O-ring belt conveyors / Two twin strand conveyors

Features:

- Mechanical slave drives are a creative way of saving costs.
- Glide-Line has a lot of flexibility in creating slave driven devices and conveyors due to its inherent flexible configuration capabilities. We can add slave drive boxes which results in a power take-off rotating shaft. Power is transmitted through our steel tensioned timing belts.

We're willing to create a solution that solves your exact problem or need, check out our **Customized Standard Solutions** & chat with us about your project & system's pain points.

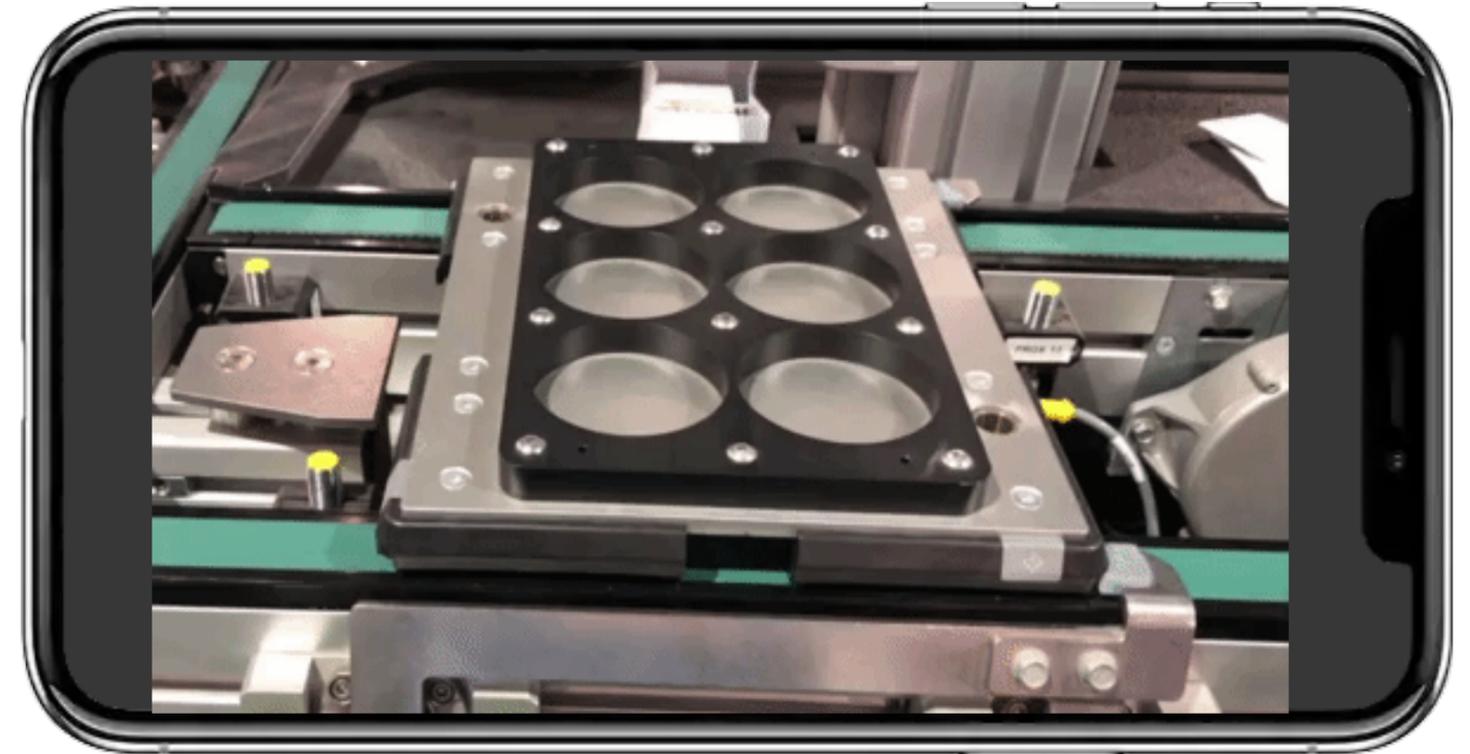


CENTERLINE ADJUSTABLE CONVEYOR

Our patent pending Centerline Adjustable Conveyor improves guide rail structural stability and adjustability by allowing the guide rails to adjust to your product. The purpose of the Centerline Adjustable Conveyor is to adjust the width of a conveyor – the dimension between conveyor strands.

- Adjust the width of a conveyor for a different sized pallet (or any product for that matter)
- This is in lieu of adjusting guide rails for a product run (or for various products)
- Conveyor beams have integral guides which are inherently more consistent and rigid than manually adjusted rails

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PEDESTAL MOUNTING SUPPORT SYSTEM

Support systems can be designed and built for Heavy Duty Lift and Locate stations. This will allow forces to be offloaded from the conveyor and into a support system designed specifically for your application. Shown here is an aluminum extrusion-based Pedestal Support for a Heavy-Duty Lift and Locate suitable for 1500 pounds of force.

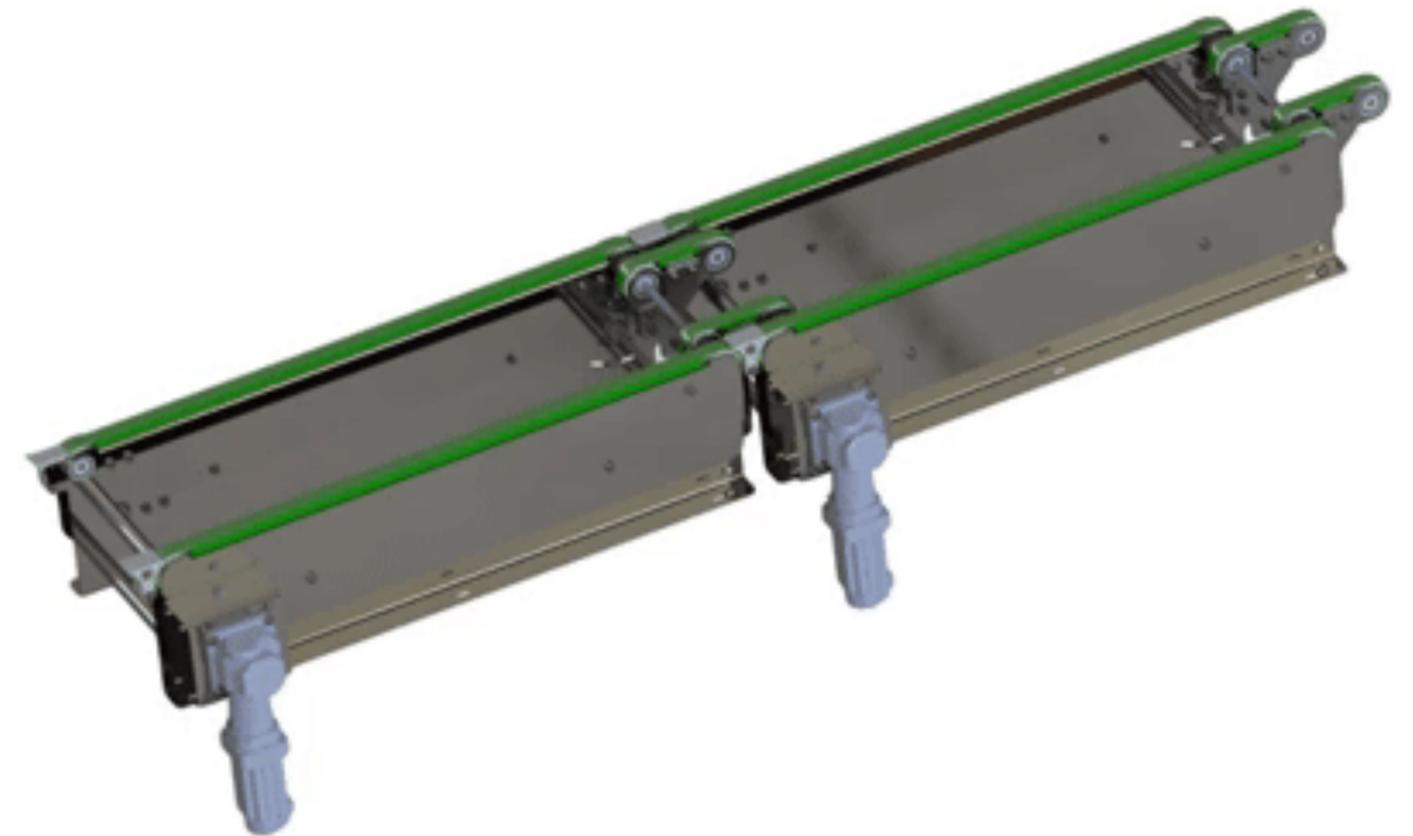


TRANSFER BRIDGE CONVEYOR SOLUTION

This transfer is built to handle specialty products that require additional support at and end to end transfer. This is a supplemental conveyor that will provide support while a product is going over an end to end transfer.

- This customized system was developed for handling automotive tires and the customer wanted additional support through the end to end transfer.
- This system utilized a special steel frame in order to accommodate an “end drive” instead of our standard center drive. This allowed us to utilize a belt material that otherwise would not work well in a center drive arrangement.
- Helps product transfer very reliably with no disturbance or loss of motion at the transfer points
- Eliminates the need to have any special transfer plates and provides a positive transfer.

We're willing to create a solution that solves your exact problem or need, check out our **Customized Standard Solutions** & chat with us about your project & system's pain points.



DIRECT PRODUCT HANDLING CONVEYOR

This is a zero contact zoned conveyor designed to handle product directly on the conveyor (with no pallet on the conveyor system). Products are conveyed directly on the conveyor belt.

- High friction, 'soft' durometer conveyor belt. The belt was specifically selected as it has a low durometer rubber coating to provide high friction and give for handling the product.
- Products are conveyed in the system with 100% individual zone control, meaning they never touch each other, but allowing for accumulation of product in areas of the line that require this function.
- It is a standard Zero Contact Zoned Conveyor concept but utilized with an end driven conveyor vs. our standard center drive. This allowed us to utilize a belt that would normally not work well with the back bends required in a center driven conveyor.
- This can be a great solution for handling heavy loads and not having to deal with high wear and tear or potential for damaging products.

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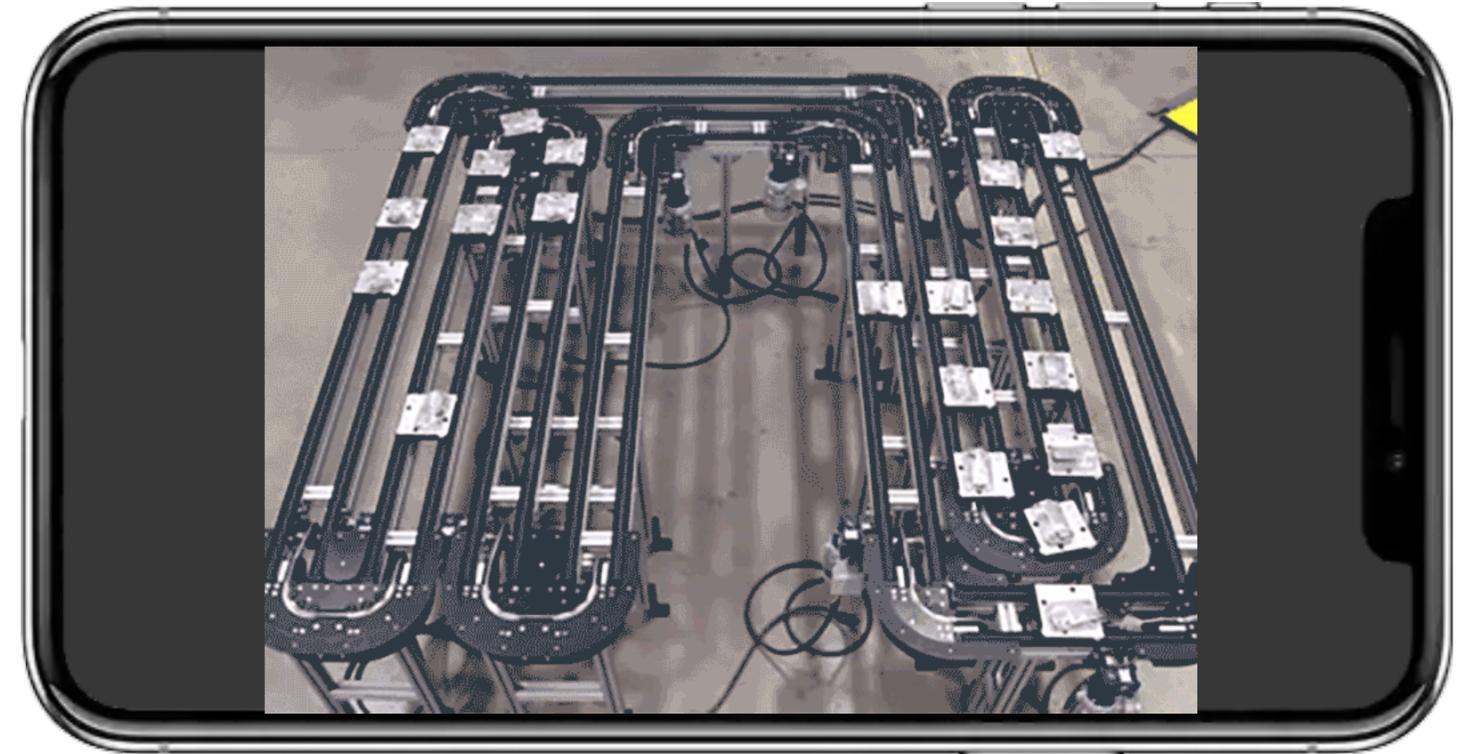
We're willing to create a solution that solves your exact problem or need, check out our **Customized Standard Solutions** & chat with us about your project & system's pain points.



SERPENTINE BUFFER CONVEYOR

A buffering line for accumulating a large amount of product in a relatively small footprint.

- Standard Glide-Line conveyors
- Standard Glide-Line curves
- Can be configured for continuous movement for curing or cooling of product
- Can act as a buffer for asynchronous or batch operations



We're willing to create a solution that solves your exact problem or need, check out our **Customized Standard Solutions** & chat with us about your project & system's pain points.



POP-UP RIGHT ANGLE TRANSFER

Allows for product to be transferred 90 degrees to another conveyor line.

- Standard Glide-Line conveyors with the addition of custom pop-up transfer unit
- Allows product to be transferred 90 degrees to another conveyor system
- Quick and seamless automated transfer of product between conveyor systems
- Utilizes a single air cylinder, eliminating the need to sync multiple pop-up cylinders
- Non-marking rollers to prevent unwanted marks and scuffs on product



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DUAL POP-UP TRANSFER

Allows for horizontal transfer of very large products from one conveyor line to another.

- Standard Glide-Line conveyors with the addition of two pop-up conveyors
- Allows product to be transferred to another conveyor line while maintaining orientation
- Quick and seamless automated transfer of product
- Each pop-up utilizes a single air cylinder, eliminating the need to sync multiple air cylinders
- Non-marking rollers prevent unwanted marks and scuffs on product



We're willing to create a solution that solves your exact problem or need, check out our **Customized Standard Solutions** & chat with us about your project & system's pain points.



OPEN CENTER DESIGN

The open center design allows you to convey products that protrude below the pallet without interference from the conveyor.

In the example to the right, vertical hanging elements rest in a pallet and extend down below the pallet.

Features:

- AC and DC driven options
- Open Center Device options, such as Lift and Locate
- Ability to mount specialty devices without interference from conveyor components

