

SYSTEMS. SOLUTIONS. SERVICE.

APPLICATION & CAPABILITIES





EXPERIENCE THE ADVANTAGE.



WHY CHOOSE HYTROL?

Hytrol Conveyor Company, Inc. is regarded as an industry expert in automated material handling solutions. With operations in the United States and Mexico, Hytrol is the largest conveyor manufacturer in North America. Our success can be attributed to our firm commitment to systems, solutions, and service. A key component of The Hytrol Advantage is our Integration Partner Network, which is comprised of more than 100 locations around the world. We deliver innovative products and applications that improve profitability and sustainability in your supply chain.

Our cutting-edge manufacturing facility operates under Lean principles to produce conveyors with the shortest lead-times in the industry. Organized focus factories enable us to continually improve our processes and manufacture top tier solutions.

BENEFITS OF CHOOSING HYTROL

- 65+ Years of Stable Ownership
- Concept and Systems Engineering
- Largest Local Support Network
- Customer Application Testing
- Competitive Pricing
- Customer Education
- Industry Best On-Time Delivery
- Product Designed for Sustainability
- Start-Up Assistance
- Simplified Installation
- Customer Specific Crating
- Powder Coat Finish



LARGEST NETWORK OF INDUSTRY EXPERTS

Hytrol goes to market exclusively through a network of integration partners who help facilitate the entire process from concept to long-term support. The Hytrol Integration Partner Network is comprised of more than 100 locations around the world ready to serve you. For over 65 years, Hytrol customers have benefited from the unique three-way relationship formed between Hytrol, its integration partners, and our customers. Through our strong network, we provide the local presence and on-site expertise needed by today's customers. Our integration partners are experts at designing and applying solutions that meet end user needs. All integration partners are independent companies who specialize in understanding your unique business needs.

CONCEPTS AND SYSTEMS ENGINEERING

Hytrol's engineers, application specialists and project managers work hard providing our customers with cost effective solutions. Our application specialists and systems engineering teams assist with the quoting and order entry of all Hytrol projects. They provide detailed layouts and system design consultations, ensuring you get the best solution for your needs. Once final layouts are produced, the systems engineering teams begin concepting. They work closely with project managers to process final layouts and ensure scheduling requirements are met. From scheduling and development to tracking and implementation of the project, Hytrol's project managers provide comprehensive support throughout the entire process.



CUSTOMER EDUCATION

Through Hytrol's training programs, we are able to build and maintain strong relationships with our network, while furthering product knowledge. Our goal is to enhance our network's ability to use, recommend, engineer, and sell our product more efficiently, while ensuring that our employees and integration partners stay on top of industry trends.

SIMPLIFIED INSTALLATION

At Hytrol we want everything to be as simple as possible for our customers when it comes to the installation of your conveyor system. That's why every order is quality checked and all powered conveyor orders are assembled and tested in production, prior to shipment. Hytrol conveyors are also matched-marked to help simplify installation in the field. Match-marking is the process of placing coordinated numbers on the end of each conveyor section, reducing installation errors. Hytrol also includes layout drawings for larger system orders that not only provide specific installation instructions, but they also reference the match mark numbers.

WORLD CLASS MANUFACTURING FACILITY

Hytrol's world class manufacturing facility operates in a lean environment. By practicing lean manufacturing, six sigma, and maintenance excellence we are able to service our customers efficiently with quality products at reasonable prices. The combination of these three practices makes our Hytrol Power Lean unique to other lean environments. Power Lean is a long-term business philosophy, strategy, and relentless attack on waste, whether it is on our production floor or within any of our business processes.



TECHNOLOGY CENTER

When it comes to innovations, Hytrol's Technology Center is the foundation for the company's excellence. Our late founder, Tom Loberg, envisioned an environment that would accelerate product development and lead to breakthrough designs and applications. At the Tech Center, Hytrol's engineers and Integration Partners meet with customers to discuss the requirements for new types of equipment to meet their needs. Over the past two decades a wealth of conveyor designs and applications have come to life here. Our game-changing designs for accumulation, sortation, pallet handling, and transportation equipment can be seen throughout the material handling industry. Hytrol invites you to contact your local integration partner about visiting the Technology Center for an opportunity to transform your expectations into solutions that are innovative, versatile, and application-specific.

PRODUCT TESTING

Hytrol also offers complementary product testing at the Technology Center and Research and Development Lab. Are you unsure of your product's ability to convey? Let us evaluate and video your product moving on a Hytrol test system. With a wide variety of test equipment, we can find a solution for any application. Please contact your local integration partner for more information.

A black and white photograph of a man and a woman in a professional setting. The man, in the foreground, is looking intently at a whiteboard. The woman is behind him, also looking at the whiteboard. The whiteboard contains technical drawings, including a cross-section of a mechanical part and a flowchart. A bright yellow rectangular box is overlaid on the right side of the image, containing the word 'SYSTEMS' in bold, uppercase letters.

SYSTEMS

Hytrol conveyor systems deliver results that address your current business needs, while preparing for your future growth.



DECONSOLIDATION

Key System Solutions:

Third party logistics, cross dock, deconsolidation

Product Handled:

Assorted items

“What Hytrol’s Gap and Store option gives us is the ability to pack a large amount of freight in our merge area and still maintain control with it so that we can get it at a high rate of speed through the sorters.”

— Engineering and Maintenance Manager



DISTRIBUTION AND FULFILLMENT

Key System Solutions:

Receiving, picking, shipping

Product Handled:

Food service equipment and supplies

“Everyone really had a vested interest to make the system a success. I was able to convey to our leadership that we had the right team working on this. We got the right system by going with Hytrol.”

— Vice President of Operations

APPAREL DISTRIBUTION

Key System Solutions:

Receiving, picking, consolidation, packing, shipping

Product Handled:

Footwear and accessories

“We selected Hytrol because we considered their conveyors to be the Mercedes-Benz of the industry in terms of reliability and productivity. We have not been disappointed.”

— Vice President



FOOD & BEVERAGE

Key System Solutions:

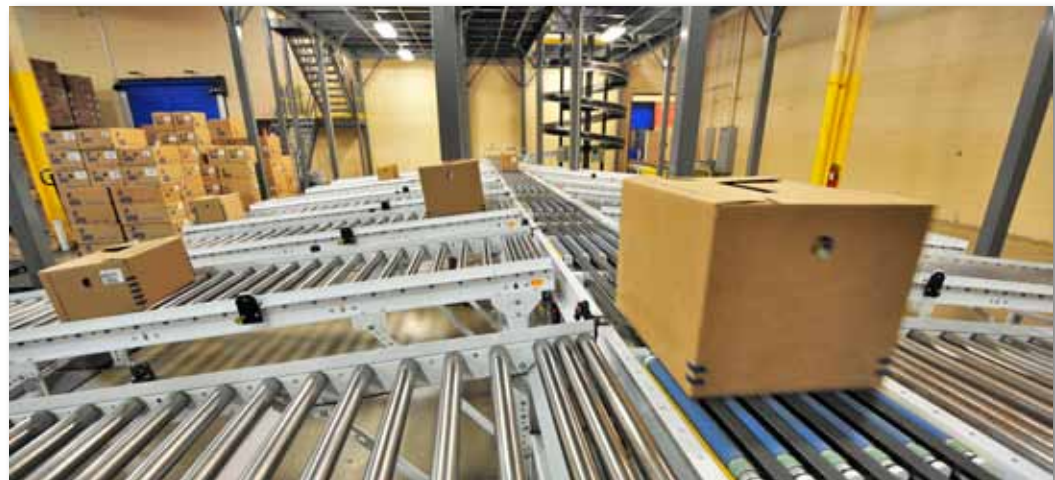
Receiving, picking, packing, shipping

Product Handled:

Food packaging

“We wanted to increase overall productivity and improve order turnaround time so that we could serve our customer better and faster. This distribution center is accomplishing those objectives and the Hytrol conveyor system plays a big part in that.”

— Vice President of Distribution





BOOK DISTRIBUTION

Key System Solutions:

Receiving, picking, consolidation, packing, shipping

Product Handled:

Books

"Product was delivered when we needed it and it all worked out very well timewise. There have been so many advantages with the new system in place. The accuracy, speed, and the throughput Hytrol affords us has improved our services to our customers. We are very happy with Hytrol."

— VP of Distribution and Logistics



ELECTRONICS

Key System Solutions:

Ergonomic work stations for large items

Product Handled:

Telecom Racks, Runway, and Kits

"We're now seeing throughput levels that are 30 to 35 percent greater than what we had before the system was installed, the facility now averages about 150 racks per line in an eight-hour shift."

— Facility Engineer



INNOVATIONS

Hytrol continually develops new concepts, conveyors, and applications through many avenues.

EZLOGIC® ACCUMULATION

EZLogic®, or Electronic Zero-Pressure Logic, is a method of zero-pressure control that combines the sensing accuracy of photo-electrics with discrete electronic logic control without the use of a PLC or pneumatic logic components. This system provides all the “intelligence” needed to accurately control the various functions of zero-pressure accumulation on a variety of conveyor models. Reduced noise, higher reliability, higher throughputs and ease of maintenance are just some of the advantages of the EZLogic® system.

The heart of the EZLogic® Accumulation System is the EZLogic® zone controller. Each controller is equipped with a photoelectric input device to detect product presence, a microprocessor to evaluate various input signals, and control connections to provide communication of data between zones and to and from outside sources. Two types of product sensing are available: A retro-reflective type which is used in conjunction with a reflector to detect packages by looking across the width of the conveyor, and a diffuse type which is used to detect packages when a reflector cannot be used.



FEATURES

Easier installation and replacement	Greatly simplifies field wiring
Dynamic zone allocation	IOP advantages
Easy to configure	Central location for all wiring
Expanded control options	Reduced installation costs
Functionality to enhance	“Peer to Peer” communication
Product flow	Easy to reconfigure



E24™ 24-VOLT DC CONVEYOR

Hytrol's E24™ provides the industry with the 24-volt DC conveying solution customers have wanted for many years. E24™ sets the standard by delivering a powerful, long-lasting, low voltage means for product transportation. Because E24™ is a Hytrol innovation; it also works great with EZLogic® zero-pressure accumulation systems. Imagine a line of conveyors and accessories that are friendly to both the operator and the environment, but require no scheduled preventative maintenance – that's E24™.

FEATURES	BENEFITS
No air requirement	Eliminates the need for air to your conveyor system
Long life expectancy	125,000 hour design life or 10 years of continuous operation
Decentralized drive system	Simple installation with small drives located throughout the length of the unit No energy requirements (sleep mode)
External motor	Great heat dissipation Conveyor elevations may be lower No need to stock multiple part numbers
2 Standard mounting options	Allows for more creativity in the design Maintenance friendly
Motor with no gears or brushes	Safe and quiet operation Less maintenance
High torque and low RPM	Ability to handle larger products
Variable speed adjustment	Increases throughput options with great speed range
Designed to work with EZLogic®	Allows multiple options for accumulating product

PROSORT MRT | NARROW BELT SORTATION

Hytrol's mid-range sortation system is equipped with 30° and 90° diverters, both specially designed for the ProSort MRT. The precision diverters are independent of the transfer belts making them maintenance friendly and allowing for more flexible diverter locations. Both the 30° and 90° can be integrated into the same unit and located as close as 24 inches apart. The ProSort MRT 30 allows for faster throughput rates using precision bearing wheels that pop-up between the belts to divert the product at 30° angles. The ProSort MRT 90 is a dual-sided diverter that provides induction capabilities anywhere along the conveyor. The rollers pop up between the belts, diverting items at 90° angles. One major advantage is the ProSort MRT's ability to track products. Narrow belts prevent product slippage and movement allowing induction eyes to accurately track each package and communicate to the PLC where each specific product is along the conveyor. Other unique benefits of Hytrol's ProSort MRT are the ease of installation and maintenance. The belts are installed through slotted bed spacers built into the conveyor frame, significantly reducing installation and replacement times. Each belt also has its own individual pneumatic take-up allowing for simple and easy adjustments.



FEATURES

BENEFITS

Compact design	Saves up to 75% more floor space than other sortation equipment
Two-sided diverter	Reduces hardware and allows unit to be a sortation or induction point
High sort rates	Perfect for picking modules and order consolidation
Close transfer locations	Easily fits within your facility's constraints
Flexible sort locations	Allows for variations within operation
HyPower distributed cabling system	Lowers field wiring expenses and simplifies changing locations



PROSORT 400 ELITE SERIES

Hytrol's ProSort 400 Elite family of sorters is specifically designed to handle high-speed applications where product diverting needs to be both positive and gentle. The ProSort 421 is designed to sort products at a 22 degree angle where higher speeds are required and close divert centers are not so critical, speeds of 700 FPM are possible. The ProSort 431 is designed to sort products at a 30 degree angle where close divert centers are required and speeds of 350 FPM are possible. The ProSort 421 & 431 series is offered as single-sided, diverting from either side.

For systems requiring dual-sided sorting, Hytrol offers the ProSort 422 and ProSort 432. These models use a dual-sided wrap around shoe, which is similar to the single-sided shoe, but offers the ability to sort in either direction. The shoe fits the same slat and is designed to be jam-resistant. This allows for increased carton rate with higher throughput. The center switch used with the dual sided option is designed to require zero electric or pneumatic service for operation. With its unique design, versatile divert options and custom controls package, Hytrol's ProSort 400 Elite series offers customers an efficient and advanced sortation solution.

HIGHLIGHTS

High sort rates	2 Optional divert switches
Minimum gap anodized aluminum slat	Wrap-around shoe design
High efficiency gearmotor	ProLogix® & ProLogix Plus controls
Integrated induction conveyor	Capable of 700 FPM
Sealed lubricated carrying chain	Plug-N-Go® wiring
Continuous polyurethane bearing track	

CONTROLS

You can't go wrong with Hytrol's Controls package. In addition to the complete pre-engineered software that guides the customer's product through all phases of sorting, Hytrol engineers design, build and wire all electrical panels. They insure that all sortation systems will be "GO" when the button is pushed and the sortation system begins to function. Hytrol also supplies "on-site" commissioning for your sortation controls package.

PROLOGIX® SORTATION CONTROL

Cost effective pre-engineered solutions	Multiple languages
Blazing fast setup slashes installation costs	New installation or retrofit of existing
Intuitive touch screen interface	Flexible communication options
Maximizes any sorter's capabilities	Built-in diagnostics with 24/7 remote support

GAPLOGIX® GAPPER CONTROL

Cost effective pre-engineered solutions	Works with any brand of equipment
Perfect spacing for optimal throughput	New installation or retrofit of existing
Maximizes throughput and minimizes conveyor speed	

ZIPLOGIX® COMBINER CONTROL

Cost effective pre-engineered solutions	Perfect spacing for optimal throughput
Optimal pre-induction for sortation	Works with any brand of equipment
Zipper cases from multiple lines	New installation or retrofit of existing
Maximizes throughput and minimizes conveyor speed	





PALLET HANDLING

Whether it's toys or shoes, pharmaceuticals or appliances, you have created an incredible product. Now's the time to share it with the world. But, if you're unsure how to get it out the door, we have a solution for you. Although pallet handling is not a new concept, there are always system design factors that need to be addressed. Products change, packaging evolves, and demand increases. Hytrol understands these issues and has created a state-of-the-art Pallet Handling Test System to help you find the right solution for your changing needs.

PALLET HANDLING ADDRESSES THE FOLLOWING:

Increased throughput needs

Operation size limitations

Safeguarding transfer of product

PALLET HANDLING SOLUTIONS INCLUDE:

Chain roller	Drag chain
Chain transfer	Lift, rotate and transfer
Accumulating	



STANDARD SOLUTIONS

Hytrol's extensive product mix means we have conveyors and conveying accessories to fit almost any application.



TA
Conveyor shown with optional floor supports.

HORIZONTAL BELT | Powered transportation, difficult to convey items, assembly line applications

MODEL	APPLICATION
TA	Assembly line operations, sorting, packing, and inspection.
TR	Overhead conveying applications using boxes, cartons, cases, bags, etc.
TL	Assembly line operations, inspections, testing, sorting, and packing.
TH	Easily handles empty cardboard boxes and paper trash.
SB	Assembly line operations, inspections, testing, sorting, and packing.
RB	Assembly line operations, inspections, and packing.
GAPPER	Designed for feeding sawtooth merges, combiners, sorters, or other equipment where gaps must be pulled between cartons. Gapper-L is designed for similar applications where gaps must be optimized between cartons or for feeding scales where carton pitch must be controlled.



190-NSP
Conveyor shown with optional floor supports.

LIVE ROLLER | Powered transportation, many products, side loading, merge on and off applications

MODEL	APPLICATION
ABLR	Medium to heavy duty cartons; applications vary from manufacturing to distribution.
190-NSP	General transport conveyor with the ability to accumulate product with back pressure. Curves, spurs, and straight spurs available.

ACCUMULATION | Powered accumulation and/or transportation, automation, intermediate stopping

MODEL	APPLICATION
190-ACC	Ideal for accumulation of cartons and boxes, while allowing 2% minimum back pressure.
190-ACZ	Ideal for accumulation of cartons and boxes, while allowing 2% minimum back pressure.
190-NSPEZ	Designed for applications that require accumulation of product without a buildup of line pressure. Product may be released in singulation or slug fashion. Curves are available.
ABEZ	Designed for applications that require accumulation of product without a buildup of line pressure. Product may be released in singulation or slug fashion.
190-E24EZ	Applications that require accumulation of product without a buildup of line pressure.
199-E24EZ	Applications that require accumulation of product without a buildup of line pressure.
25-PVE24EZ	Poly-V belt driven conveyor designed to handle pallets, drums, containers, etc.
199-CRE24EZ	Chain driven conveyor designed to handle heavily loaded containers, racks, pallets.
25-LREZ	Designed for use in low elevation (12") and where close roller centers are required.
199-CREZD	Chain driven conveyor designed to handle cartons or pallets in conditions that may be suitable for belt-driven rollers.
199-PVEZD	Poly-V belt driven conveyor designed to handle medium duty cartons or pallets.
25-CREZD	Chain driven conveyor designed to handle pallets, drums, containers, etc.
25-PVEZD	Poly-V belt driven conveyor designed to handle pallets, drums, containers, etc.
36-CREZD	Chain driven conveyor designed to handle heavily loaded containers, racks, pallets.
PLEZD	Plastic belt conveyor designed to handle footed pallets, slip sheets, and unitized loads – items normally non-conveyable on roller conveyor.
DCEZ-60	Two-strand drag chain conveyor designed to handle pallets.
DCEZ-63	Three-strand drag chain conveyor designed to handle pallets.



ABEZ
Conveyor shown with optional floor supports.



199-CRR
Conveyor shown with optional floor supports.



199-PVR
Conveyor shown with optional floor supports and clear chain guard..

CHAIN ROLLER | Heavy duty loads, pallets, drums, oily parts in bottling and steel industry

MODEL	APPLICATION
199-CRR	Ideal for light to medium duty pallet handling or oily conditions not suitable for belt driven live roller.
25-CRR	Ideal for higher load capacities such as loaded pallets and drums. Chain driven rollers make it perfect for conveying oily parts in bottling and steel industries.
36-CRRH	Rugged design allows it to provide service under demanding manufacturing operations. Use the 36-CRRH for conveying heavy pallets and drums.
SL	Steel belt slats provide dependable performance. Use the SL to convey hot, oily parts or items through heat drying processes. Can also be used for assembly line and production operations.

POLY-V BELT | Heavy duty loads where little maintenance or a quieter operation is required

MODEL	APPLICATION
199-PVR	Poly-V belt driven conveyor ideal for light duty pallet handling.
25-PVR	Poly-V belt driven conveyor used for conveying higher load capacities such as loaded pallets and drums.

SORTATION | Automation in warehousing, distribution, manufacturing, etc.

MODEL	APPLICATION
PROSORT 131	High speed sorting of small, fragile items or groups of items.
PROSORT 400	High speed sorting at 22° or 30° where positive and gentle divert is required.
PROSORT SC	Belt driven sortation providing a reliable method of tracking packages to divert.
VIPERSORT	Right angle sortation used to sort small to medium size products, such as blister packs, vinyl envelopes and other problematic items.
PROSORT MRT	Narrow belt sorter for medium-sized items, available in 30° and 90°.



ProSort 400 Elite

INCLINED | Floor-to-floor conveyor equipped with adjustable double nose-over

MODEL	APPLICATION
SBI	Easily adjusts up to 30° while insuring a smooth transfer to horizontal plane. This conveyor can also be used as a booster conveyor in gravity flow systems.
RBI	Easily adjusts up to 30° while insuring a smooth transfer to horizontal plane. This conveyor can also be used as a booster conveyor in gravity flow systems.



RBI
Conveyor shown with optional floor supports.



199 SR
Conveyor shown with optional floor supports.

GRAVITY | Light to heavy loads, warehousing, shipping, assembly lines, manufacturing

MODEL	APPLICATION
SW/AW	Used to convey lightweight packages or when operation requires lightweight sections. Useful in setting up temporary conveyor lines in warehousing activities, shipping departments, assembly areas, etc.
SSR/SAR	Used to carry lightweight packages or when operating requires lightweight sections.
19SR/19GSR	
199SR	
20SR	Ideal for packages on permanent or temporary lines in warehousing activities, shipping departments, assembly areas, etc.
2514SR	
2511SR	
26SR	
36SR	Used to convey heavy loads, such as pallets, castings, etc. in steel industries and other manufacturing operations which require heavy-duty conveying equipment. Roller may be set high or low in conveyor frame depending on applications.

A grayscale photograph of a complex industrial roller conveyor system. The rollers are arranged in multiple parallel tracks, creating a strong sense of perspective and depth. The machinery is made of metal, with various structural supports and components visible. A yellow rectangular box is overlaid on the left side of the image, containing text.

SPECIALS

Hytrol uses innovations and standard products to produce special solutions.
To learn more, please contact your local integration partner.



HIGH SPEED MERGE

With special 4" high bead rail fixed plows, this high speed merge is able to move product from two 24" overall width conveyors to one 24" conveyor that is located in the center of the overall width.

TRANSFER CART

Powered by a ¾ HP Eurodrive gearmotor with an overall length of 10' and an overall width of 59.25", the transfer cart is able to withstand a weight capacity of 3000 lbs.

PNEUMATIC LIFT STATION

This pneumatic lift station is designed to lift 2000 lb. multi-deck merchandiser refrigerators so assemblers can work on them without bending.

TOL-O-MATIC OVERHEAD PULL-OFF

Hytrol Model 190-ABEZ equipped with yellow label EZLogic® eyes is used with a PLC to control the accumulation and release of product into the pusher. Boxes are pushed from one line to another.

COIL SPOOLING STATION

This unit is designed to handle 300 lb. coils of copper air conditioner tubing. A gantry robot places these coils on the support arms which are attached to the Hytrol Model CRR conveyor.



VIPER SORT SMALL ITEM SORTER

Hytrol's Viper Sort can be used as an order sorter in a business to consumer processing application.

HEAVY DUTY PSB PLASTIC CONVEYOR

This special heavy duty conveyor is designed to convey rolls of raw material used in the manufacturing of paper towels. Rolls measure 102 in. in diameter x 102 in. tall and weigh 5000lbs.

PNEUMATICALLY OPERATED SIDE CLAMP BOX PUSHER

This pneumatic station closes the ends of boxes while the box is being moved on the conveyor.

LIFT & ROTATE

With this special, pallets are moved to a "Star and Rotator" and rotated in 90 degree increments in a full 360 degree rotation.

POWERED TURNTABLE

This unit was designed for product that enters the turntable and is rotated to a take-away transfer cart where the pallets are moved to a pick station.



V-BELT TRANSFER

Hytrol designed this extended V-belt type transfer using nine strands of V-belts to move product from one conveyor laterally to another.

PIVOT CART

Hytrol's pivot cart offers 90 degree product rotation, while helping you maintain a flexible floor plan. This product is designed for pallet handling applications.

SWEEPSORT

Hytrol's SweepSort small item sorter can accurately track and literally "sweep" problematic items such as round objects at rates of up to 140 items per minute.

To learn more about how Hytrol can help you with a special solution, please visit www.hytrol.com.


A PLACE FOR YOUR IDEAS[illegible]



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