

HY-LITES

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Sustainability in Material Handling

Environmental well-being and cost considerations go hand-in-hand with most items we purchase, manufacture, or deal with daily. As environmental awareness trickles down the chain, we in material handling - and those to whom we supply our products - are ultimately responsible for following suit. With "green", "sustainability" and "carbon footprint" being used in connection with today's equipment and process evaluations, Hytrol is working to provide the industry's most cost-effective, energy-efficient, and time-saving products available.

Customers Need Diversity

The material handling industry supplies equipment and services to a very diverse group of customers, including pharmaceutical, packaging, warehousing and distribution, food and beverage, bottling, and numerous others. In all of these industries, one thing holds true: optimal efficiency is critical.

Hytrol plays a major role in bringing sustainability to these operations, no matter the size, location, or



Hytrol's EZLogic® and E24™

daily operating schedule. We offer many types of cost-saving (sustainable) material handling conveyor components to fit any application.

E24™ and EZLogic® - "Green" Solutions

For over 60 years, Hytrol has strived to develop products that provide energy as well as cost savings to those that utilize our conveying systems and components. A perfect example would be Hytrol's revolutionary E24™ and E24EZ™ conveyor lines, which provide a much-improved alternative to traditional 24-volt roller (MDR) technology. E24™ and E24EZ™ conveyors have immediate sustainability recognition in energy savings alone. Factor in the many benefits of 6x life expectancy, RoHS compliance, and *increased torque* while using **60% less energy** and the ROI and sustainability features are immediate!



Hytrol's E24™ and E24C™

Additional sustainable features that Hytrol offers to help keep your company "carbon footprint friendly" are our entire line of zero-pressure conveyors. They have a built in EZLogic® feature that allows the conveyor to enter an energy-reducing "sleep mode" when not actively driving the tread rollers. By coupling E24™ with EZLogic® accumulation modules, the sustainable rewards are outstanding!

24 Volt Sustainability

Within the past two decades, many facilities began utilizing the powered roller, 24 volt, option to run their systems, because

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they sought a more streamlined and cleaner looking conveyor system. But despite the advances in standard conveyor offerings at that time, 24 volt systems were still troubled with an array of performance issues. Being driven by this need for innovation, Hytrol designed and

began manufacturing the E24™ conveyor line. The E24™ has truly revolutionized how 24 volt operations are viewed and has put this technology back on the map as a viable and reliable option for facility operations.

24 Volt Sustainability Comparisons	
A closer look at the E24™ versus 24 volt powered rollers traditionally offered in the industry	
E24™	24 Volt Powered Roller Conveyor
Only (3) moving parts	Many small parts = opportunity for failure
External motor = one motor for all conveyor widths	Every width conveyor = different width powered rollers to stock..
No gears. Very quiet. One motor for all speeds.	Different gears for different speeds = More stock for maintenance.
External motor with no routing wires through small holes	Wires run through motor shaft and side channels, which could lead to damage to small wires during installation.
125,000 hour life expectancy (10 years) @ 24/7 run time	20,000 hour maximum (2.25 years) @ 24/7 run time
<p>These are only a few obvious examples of the features and truly beneficial returns and offerings of the E24™ conveyor line. You can also see where E24™ would be sustainable just by the lack of inventory, longer lifetime, no heat dissipation issues like powered rollers, etc.</p>	

Helping Your ROI

Today's market requires almost instant ROI and breakdown of energy and cost savings. We understand these needs and are confident that introduction of our product line will help you see immediate cost, energy, and time savings. We have designed and produced several ground-breaking solutions that exceed what is currently offered in the material-handling marketplace. These include:

Chain Roller: Durable, low-maintenance, and rugged.

The EZDrive™ controlled conveyor is designed with decentralized drives and modular conveying options that reduce energy, cost, and maintenance requirements. Also, by utilizing the E24™ drive system, no energy is consumed unless the loads are moving.

Accumulation: Segment your products as you need them. Less energy is used while organizing them for shipping, picking, packaging, etc... They do more work for you with less energy consumed.

Gravity Conveyors: No power usage at all. Optimal workspace efficiency. Mobile, modular and simple designs will keep costs down, productivity up, and are not harmful to the environment. Very green!

Special Designs: Specially designed conveyors use cutting edge technology to ensure that your application and needs are met. By implementing our energy-aware (sustainable) products, there is a custom solution available to keep your organization running in the most energy-efficient manner possible.

Also, in 2009, Hytrol upgraded all of our standard motors to improve efficiency. These new standard drives use less energy but are also inverter duty, allowing the conveying speed to be optimized for needed carton rates without constantly operating at energy wasting speeds during non-peak times.



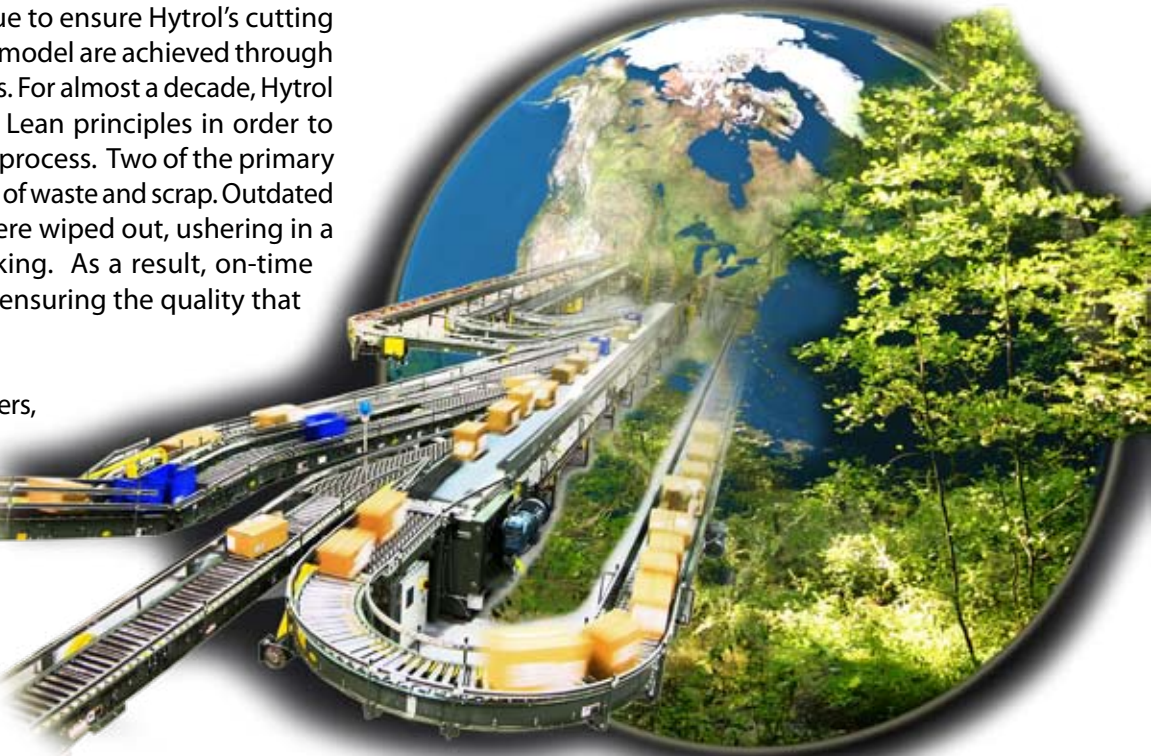
The Lean Factor

Other innovations that continue to ensure Hytrol's cutting edge and sustainable business model are achieved through our Lean Manufacturing process. For almost a decade, Hytrol has rigorously adhered to the Lean principles in order to streamline our manufacturing process. Two of the primary goals of Lean are the elimination of waste and scrap. Outdated processes and philosophies were wiped out, ushering in a new, streamlined way of thinking. As a result, on-time shipments are achieved while ensuring the quality that is expected from Hytrol.

Within the facility, three laser cutters, a powder paint system, airflow improvements and new "green" lighting greatly assist in furthering Hytrol's sustainable "footprint-friendly" directives.

Improved communication and time-saving processes have also been implemented in the office operations.

Work cells retain ownership of an order to create an efficient flow from the moment the order is taken until it reaches its destination.



From using gravity in conveying applications, to the energy-savings of EZLogic®, Hytrol is leading the way in sustainable material handling processes.

By addressing wasteful practices, Hytrol maintains its goal of meeting and exceeding customer satisfaction.



Hytrol's Overall View

We have always strived to be sustainable, green and environmentally-friendly throughout our growth over the last 60 years. Items discussed in this issue have all been implemented in our continuing effort of improving our processes, products and planet. Sustainability has become part of our daily functionality and products, and at Hytrol we're committed to ensure that you benefit from our dedication. As a global industry leader in material handling manufacturing, we will continue to diversify and improve not only our product line, but also our manufacturing process.

Please visit www.hytrol.com for additional information to see how our "green" initiatives can work for you!

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E24™ INNOVATIONS

E24™ has revolutionized the material handling industry with its energy savings and "green" friendly design. Here we present just a few of the innovations E24™ has inspired.

- 100% energy reduction when in accumulation or sleep mode
- 1/2 amp savings per motor over typical motorized roller (System of 1000 ft. = annual savings of 25,000 kw-hours)
- 6x the life expectancy over conventional 24v technology

INCREASED ACCUMULATION SPACE

Inclines/Dedlines
utilize vertical space to increase throughput

PRODUCT SUPPORT

Belt Over Roller Zoned Conveyor
for bags and other products not conveyable on rollers

PRODUCT TRANSFER

Chain Transfer
for oily products

CUSTOMIZED

Optional Drive Mountings
flexibility for your needs

CONTROLLED

PRODUCT MERGES

Accumulating Spurs

Timing Belt Transfer
parallel/perpendicular

HEAVY LOADS AND OILY CONDITIONS

Chain Driven Roll-to-Roll for oily products

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