



MATERIAL HANDLING




PRODUCT NEWS[®]

ADVANCES IN SYSTEMS, EQUIPMENT AND PRODUCTS

SPOTLIGHT ON
MRO basics

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Eliminate the SLAM Bottleneck

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EDITORIAL STAFF

Michael Levans
Group Editorial Director
mlevans@peerlessmedia.com

Noël P. Bodenburg
Executive Managing Editor
npbodenburg@peerlessmedia.com

Roberto Michel
Senior Editor
rmichel@peerlessmedia.com

Bob Trebilcock
Editor Emeritus

Jeff Berman
Group News Editor
jberman@peerlessmedia.com

Michael LaRocca
Contributing Editor

Kelly Jones
Production Director
kjones@peerlessmedia.com

Polly Chevalier
Art Director
pchevalier@peerlessmedia.com

Brian Ceraolo
President and CEO
bceraolo@peerlessmedia.com
Peerless Media, LLC
peerlessmedia.com

SALES

Steve McCoy
National Sales Manager
Northeast/Canada/
AL, AK, AR, LA, MI, MS, OH, OK, TX
smccoy@peerlessmedia.com

Susan Sammons
Midwest/West Coast
ssammons@peerlessmedia.com

Greg Bolen
Southeast/Mid-Atlantic
gbolen@peerlessmedia.com

EDITORIAL OFFICE

50 Speen Street, Suite 302
Framingham, MA 01701-2000
800-375-8015

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EDITOR'S CHOICE

Michael Levans, Group Editorial Director



Walkie reach truck with moon-walking technology

The PSR30 Walkie Reach Truck, a 3,000-pound capacity lithium-powered reach truck is designed to deliver maximum flexibility, visibility and safety across



a range of applications. It features a moonwalking mode that uses proportional hydraulics and a pantograph reach mechanism to provide the versatility of two trucks in one. The Extended Reach Mode helps it act like a sit-down counterbalanced truck and the Retracted Mode allows it to operate like a compact straddle truck. Moon Walking mode allows operators to turn the tiller 90 degrees and stand safely at the side

of the machine instead of directly behind it, allowing for higher visibility and space savings. **Noblelift**, nobleliftna.com.

Personalized packaging solution

With the X5 Nozomi, operations will see full-color on-box, on-demand print with fully automated, right-sized box production through a single machine run by one operator. Brands should be able to produce custom-printed, right-sized boxes on-demand at speeds as fast as 6 seconds. Having easy access to this type of service can enable a more powerful marketing and customer experience. And it can produce up to 570 right-sized boxes per hour. **Packsize**, packsize.com.



Stretch wrapper with reduced film usage

The Octopus Prestige stretch wrapper is a standard wrapper that offers new advancements such as increased speed and reduced film usage due to its Double-S film carriage system that helps improve film conversion. It is also built to last on top of its smart features and efficient operation. Octopus stretch wrappers overall can simplify the wrapping of any load, from single wrapping to

double wrapping, band wrapping and flex roping. **Signode**, signode.com.

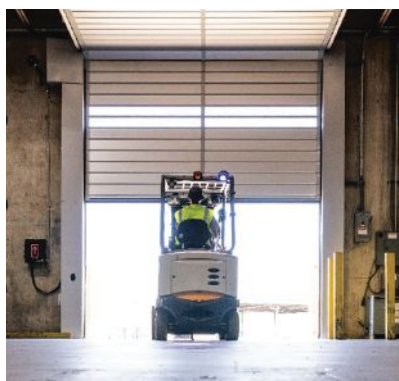


Hybrid bagging solution

The Autobag 850HB Hybrid Bagging Machine delivers a complete range of protective packaging solutions, supporting curbside recyclable paper and traditional poly mailers in a single system. This balance of efficiency, product protection and material flexibility helps e-commerce, direct-to-consumer brands and third-party logistics providers meet the demands of modern fulfillment. Its key features include a quick material changeover, on-bag printing and a quick material changeover, among others. Above all, the system looks to reduce waste, protect products and deliver reliable, efficient fulfillment experiences. **Sealed Air**, sealedair.com.

Enhanced palletizing efficiency

The AccuTable system helps operations address challenges like labor shortages, complex product lines and the need to do more in a facility with less space. The system combines advanced accumulation and intelligent control in one compact platform reducing system footprint, optimizing materials handling, and accelerating load delivery to palletizers and making them more efficient. Operations can see 10% improvement in overall efficiency, reduced floor space requirements and reliable operation in temperatures as low as -13°F. **Scott**, scottautomation.com.



Fast and secure security doors

The Raptor Rigid line of security doors is designed for demanding environments, combining speed, reinforced aluminum and advanced safety features. Some models can open at speeds ranging from 30 feet per second all the way to 80, keeping operations moving and preventing unneeded waits. The line of doors is designed for minimal maintenance, with its base model using a springless design while the high-speed models use high cycle extension springs. It also comes with a MRO program that analyzes the current state of each door, alerting operations when repairs need to be done. **Rite-Hite**, ritehite.com.

In-house lithium-ion battery

5/35 Lithium-ion Batteries are produced by the supplier to fit the energy needs of customers and enhance operational productivity. They are available in 24V, 36V and 48V power capacities, each of them receiving an IP69 rating, allowing them to be used in various environments like cold storage and food and beverage. They even feature integrated thermal management for optimal performance in temperatures from -22°F to 122°F. Current lithium-ion chargers are fully compatible with these batteries. **Toyota Material Handling**, toyotaforklift.com.



Charging stations

V-Force Energy Solutions charging stations can help preserve the performance and availability of forklift power. Each charging station configuration should consider charging area, lift truck model and dimensions, operator access, direction of travel, charger mounting position, charge port accessibility and more, protecting chargers, cables and connectors from damage that can lead to unexpected downtime. **Crown**, crown.com.



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MRO basics

Preventative maintenance can save operations significant time and money.

By Michael LaRocca, Contributing Editor

There is no worse feeling in the world than seeing your car's little yellow check engine light appear on the dashboard when you're driving down the highway. You have no idea what's wrong with your car, and you had no idea it was coming. What if there was a way to know something needed to be repaired before it even breaks?

While that concept hasn't become standard in the automotive industry, it has developed into a near necessity in the materials handling industry. MRO—or maintenance, repair and operations—is an overarching term that encompasses everything needed to keep a facility running smoothly and efficiently. That can include general maintenance supplies and safety equipment, among other things.

However, you can employ full MRO systems that come in forms that actively alert operations when preventative maintenance needs to be done, important for keeping everything on schedule. That is what we will focus on here.

For example, a variety of sensors can be placed around a facility, tracking the quality and quantity of machine parts and alerting operators when maintenance needs to be done before any issues arise. And when an issue does appear, it can be integrated with software that notifies operators as soon as possible with a prognosis.

"You're looking at parts tracking, preventative maintenance tasks and labor management," says Royden Edwards, director of

customer support sales at Swisslog. "There's a lot of best practices that fall under that category of MRO, and I think when you look at the automated field, especially the impacts of having a program or not having a program that is effective can be felt pretty widely throughout the facility."

Strong use of an MRO system can lead to a much safer environment for all personnel throughout a facility. When the system can detect a flaw in a part, or understand when maintenance-related downtime must be scheduled, work can be done proactively to keep everyone safe before any danger is possible.

In the same way, MRO can save operations money by letting them know an issue is forecasted, so it can be fixed before it becomes a much more expensive problem later down the road.

"It might seem like a small task, but chains (on a chain conveyor) getting loose or out of sync over time can result in pallets that would walk or fall within the conveyor," Edwards says. "The result of that is that you're doing physical recovery, restocking the

pallet, locking out the equipment, carrying product and pallets over automated equipment. So, these small tasks just inherently make the systems safer to work around and work with."

MRO systems can actually be applied to an operation no matter the size. Their scalable nature allows for them to work equally well for a small operation and a fully fledged Amazon warehouse.

In the future, the industry will likely see systems evolve to be more preventative, knowing exactly what the signs are for a part failure before it happens.

"I think that's becoming the expectation in the industry," Edwards adds. "I want a crane to tell me before it's going to error out, that it is potentially going to error out and to have retry conditions built in where it's auto recovering from certain error conditions."

So, while it's tough to know when your car might need some fixing before it breaks, MRO systems can help facilities predict and address shortcomings in their own infrastructure, allowing for a safer environment and lower maintenance bills in the long term.

Modular service concepts

Modular service operations can keep automated systems running at peak performance. From preventative maintenance and remote software support to 24/7 technical assistance and spare parts programs, the supplier's certified technicians ensure uptime and reliability. With SynQ-powered system monitoring and tailored MRO solutions, the supplier can help customers optimize operations and extend equipment life. Its service portfolio is designed to meet the evolving needs of modern warehouses and distribution centers. **Swisslog**, [swisslog.com](https://www.swisslog.com).

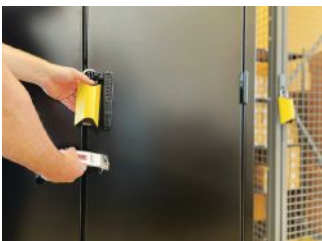


Large-area floor cleaning

The KIRA B 200 robotic scrubber provides operations with a cleaning solution that can address labor shortages and costs. The scrubber works fully autonomously using a docking station. The station handles all essential maintenance such as charging, emptying, tank rinsing and fresh water replenishment, even ensuring it is at a sufficient charge to complete scheduled tasks. It comes equipped with 52-gallon fresh and dirty water tanks and a cleaning width of up to 35 inches. For navigation, it uses a combination of LiDAR sensors and five cameras, certifying it operates safely around human workers and AGVs. The images it creates are only processed in real time and not stored for data security purposes. Two different brush head models are also available. **Karcher**, [karcher.com](https://www.karcher.com).

Smart storage solution for parts management

The Megamat vertical carousel module series is a new high-density storage and retrieval option that can deliver fast and reliable access to critical MRO parts and tools. It uses a series of vertical carriers that deliver stored items directly to the user, preventing unneeded movement or searching for parts. It comes in three models: the 180 for light-duty use, the 350 for versatile mid-range applications, and the 650 with a heavy-duty load capacity of up to 1,433 pounds per carrier. Users can see a 66% boost in picking productivity with up to 99.9% picking accuracy and a reduced storage footprint of up to 75%. **Kardex**, [kardex.com](https://www.kardex.com).



Rugged and secure smart locks

The BoxLock Control Platform combines rugged, cellular-connected smart locks with integrated bar code scanners, giving materials handlers and warehouse managers real-time visibility into who accessed assets, when and for what purpose. This ensures cribs, containers and high-value inventory cages remain secure while still being readily available to authorized personnel. By reducing bottlenecks around check-in/check-out and repair or calibration of critical tools, BoxLock helps facilities operate more efficiently, safely and productively. It also provides actionable data that simplifies inventory control and replenishment. **BoxLock**, [boxlock.io](https://www.boxlock.io).

Forklift safety and fleet management

The Product Configurator is a fast, intelligent configurator that enables operations to quickly find the right forklift and pedestrian safety, forklift fleet telematics or VNA-truck solution for their operating environment. It can help operations create safer work environments and maximize equipment uptime. By inputting all of the needed factors, the system provides a clear answer for what an operation needs, eliminating any guesswork that could affect outcomes. **ELOKON**, [elokon.com](https://www.elokon.com).



Pallet rack repair kits

The Centurion line of pallet rack repair kits are fully engineered, modular repair systems built to restore and reinforce damaged pallet rack uprights to their original strength. The line minimizes the potential for costly downtime as it eliminates the need for a full rack replacement. It ensures a precise fit, reduces installation time, and gets rid of the need for in-field modifications, making repairs straightforward, further maintaining uninterrupted operations. It's heavy-duty reinforced frame, bolt-on cuffs and robust base plates are key features that deliver unmatched strength and stability. **SpaceGuard**, spaceguardproducts.com.

Mobile robots built for maintenance

The Spot mobile robot is ideal for organizations looking to add more agility to their autonomous fleet, further ensuring the safety of their teams, and boosting their ability to make data-driven decisions. As a dynamic sensing platform, the robot provides valuable insights into routine operations, site health or potentially hazardous situations. Overall, it is easy to learn and use, including the ability to provide immediate value to an operation. Its 14-kg payload capacity and compact footprint allows it to be scalable to the needs of any operation.

Boston Dynamics, bostondynamics.com.

Full suite of industrial maintenance

A full selection of RS PRO maintenance solutions is designed to help any operation meet its maintenance and repair goals in an orderly fashion. These solutions can offer reactive, predictive and preventative maintenance for components ranging from batteries and fuses to sensors that keep track of the most important equipment. The portfolio of industrial maintenance solutions contains thousands of ready, reliable, easy to buy, quick to ship and hard to break MRO products designed to enable essential improvements and optimize MRO budgets and workflows. **RS**, rsgroup.com.



Fire rated lithium-ion charging

The WFP Li-Ion charging buildings are a safe and compliant solution for operations looking to charge and store lithium-ion batteries. They come fire rated for two hours at 2192°F, minimizing the spread of fire in case of an accident, and can be configured to accommodate small, medium or large batteries. Depending on the number and size of available chargers, the loading space can be equipped with built-in shelves and socket strips. The buildings are also equipped for indoor or outdoor use, making them ideal for manufacturers or operations using lithium-ion technology in large volumes. Accessories are also available based on an operation's storage and environmental requirements. **Denios**, denios-us.com.

Heavy-duty trash cans

The Crusader line of heavy-duty round trash cans come in sizes ranging from 10 to 55 gallons. The design of the cans come made of a premium polymer resin, which includes a UV inhibitor. And the containers' rugged build promotes durability and longevity, even in harsh industrial environments. The entire line of cans are available in gray, red, yellow, black and white, with custom colors available upon request. **Quantum Storage**, quantumstorage.com.

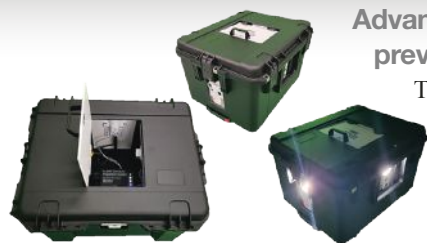


Advancement in predictive and preventative maintenance

The Mobile Conveyor Inspection System is a tool that can assist with commissioning, inspection and maintenance of conveyors, sorters and automated storage and retrieval systems. It comes equipped with three

video cameras, a thermal video camera, location tracking, adaptive LED lighting and sensors that measure a series of factors. Overall, it can help operators find and predict common failure points such as damaged belts or overheating motors. It integrates all collected data into a single synchronized video and diagnostic file, giving operators a first-person view of their systems and enabling early detection of equipment issues.

TinMan Systems, tinmansystems.com.

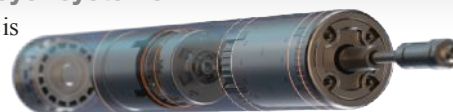


Enhanced conveyor systems

The TrueDrive DZC is a new motorized drive roller solution where drive motors

are cost-effectively integrated into individual rollers, enhancing a system's performance by providing tighter control and reducing gaps between parcels. This type of design can double throughput and achieve up to 100% system uptime. These DZC systems feature a safer design and reduced maintenance requirements by eliminating O-rings, gearboxes and pneumatic systems and enabling predictive maintenance capabilities. Operations can see up to 250% higher throughput, reducing cost of ownership.

Johnson Electric, johnsonelectric.com.



Simplified waste removal

Dust hoppers can provide substantially increased capacity compared to barrels or bags, simplifying the collection and removal of granular waste of all kinds. There is no need to retrofit existing equipment. A three-inlet hopper holds 1.3-yards (equal to five bags), which is a 67% increase, reducing the number of times the hopper needs emptying. Optional pneumatic connectors provide fast, secure, no-tools connection to existing dust collectors with the flip of a switch. They are available from ¼ yard to 12-yard capacities, fitting most major brands of dust collectors. **Iron Bull**, ibullmfg.com.



Labels for clear identification

A new labeling solution has been developed that can allow for clear and smooth identification, as well as protection during the painting process. As a crucial factor in large-scale project development, this solution allows for fast part identification and clear allocation. It overall results in flawless marking that enhances both inventory visibility and part traceability. The labels can be applied when the parts are still warm and be immediately detached without leaving any residue and without impairing the coating.

Schreiner, schreiner-protech.com.

Wireless communication solutions

NxBB is a solution to communication dropouts in warehouse environments using wireless setups. It can be used to replace Wi-Fi systems that are having issues with added value as it is a plug-and-play solution—requiring minimal downtime to install and offering seamless integration with existing infrastructure. Warehouses can integrate the system without extensive upgrades or rewiring to ensure consistent communication and zero troubleshooting. Some other key benefits include the ability to remain reliable even in harsh conditions and the ability to transmit data over long distances. **Conductix**, conductix.us.



Brake-motor assemblies

The MagnaShear motor brakes can be assembled onto appropriately sized motors for single source convenience.

With a perfectly matched and assembled brake and motor combination, customers will see out-of-the-box utility. The combinations can be painted together, making them ideal for washdown environments. The motor brakes feature Oil Shear Technology, which does not require regular maintenance or adjustment. They provide a long service life, up to five to 10 times longer than standard dry friction brakes, on top of featuring smooth and quiet operation. The brakes are totally enclosed, making them impervious to dust, dirt, water, oil and other contaminants often found in severe-duty environments. **Force Control**, forcecontrol.com.



Ergonomic walkie pallet jack

The 8210 Walkie Pallet Jack is engineered with advanced ergonomic features and iWarehouse telematics connection capability to provide superior maneuverability and efficiency in demanding environments. Designed with AC power technology, it offers smooth, controlled performance in tight spaces such as warehouse aisles, congested loading docks and busy trailers. With a capacity of 4,500 pounds, it's built to withstand high stress and heavy throughput applications. Operator comfort and productivity take priority with this lift truck, with features such as an ergonomic control handle and lithium-ion power for quicker recharge time. **Raymond**, raymondcorp.com.



High performing, affordable pallet jacks

The AVANT PJE33 and PJE44 Lithium Powered Pallet Jacks are solutions that offer high performance while also remaining affordable. MSRP pricing at \$1,500 for the 3,300-pound capacity PJE33 model and \$1,800 for the 4,400-pound capacity PJE44. Their service weights range from 287 to 293 pounds, making them ideal for loading docks, delivery operations, logistics centers, retail environments, supermarkets and confined spaces such as trailers. The PJE33 fully charges in two hours and the PJE44 in four hours, with opportunity charging available for continuous multi-shift operations. **Noblelift**, nobleliftna.com.



Expanded warehouse product availability

The MT15B and MT22 pallet trucks are products that offer versatility and efficiency. The MT15B has a 3,300-pound capacity powered by a 20Ah Li-ion battery and the MT22 has a 4,500-pound capacity developed around a powerful 24v/100Ah Li-ion battery. Both offerings come standard with an on-board charger that allows for opportunity charging throughout the day. The trucks are built for efficient movement throughout variable conditions and the batteries can be fully removed, allowing for hot-swapping.



Linde Material Handling,
linde-mh.us.

Compact pedestrian pallet trucks

The WJ 50 Series compact pallet truck is one of the most compact powered pedestrian pallet trucks available. It is ideal for helping today's workforce handle heavy loads in areas where space is at a premium. The pallet truck is especially suitable for use in wholesale and retail environments, as well as for truck transportation and curbside deliveries. A comprehensive 3-2-1 warranty package includes a three-year warranty on chassis and forks, two years on batteries and one year on main components. **Crown**, crown.com.



Nested direct-store-delivery solution

The Yale nested delivery solution features an electric walkie pallet jack, a detachable sled that secures to the base pallet jack, and matching pallets. This three-part solution is designed to help drivers better maneuver equipment and work more efficiently in direct-store-delivery applications, which often require operation on uneven outdoor surfaces and in tight retail areas. The system is engineered to facilitate a more efficient process, enabling drivers to simply detach the nested sled from the base pallet jack for a lower-profile option designed for tight retail areas. The motorized sled provides a power assist when navigating up inclines or traversing thresholds to help reduce manual effort. **Yale**, yale.com.

End rider for high-throughput manufacturing operations

Armed with productivity enhancing technology and ergonomic features, the 6,000- to 8,000-pound capacity end rider is designed to help manufacturing operations maximize labor productivity. The truck is designed to help keep operators fresh and productive, with additional foot space, a cushioned platform that transmits reduced shock and vibration, and a rear handrail that allows operators to pick a pallet using a single hand position. Additionally, the truck is designed for longer maintenance intervals, enabling service as much as 50% less often than competitive models, for less time out of service and more time actually moving product.

Hyster, hyster.com.



Class III Li-ion trucks

A complete line of Li-ion Class III models for warehouse, manufacturing, retail, logistics and other indoor applications includes the 33PPWN/45PPWN pallet jacks. These machines offer maneuverability, reliability and durability, with load capacities from 3,300 to 4,500 pounds. The models feature a smart lithium battery system offering fast charging and opportunity charging throughout the workday. It includes an advanced,



integrated battery management system that optimizes performance. Other features include: a Curtis travel controller with CAN-bus technology for reduced downtime and simplified maintenance; an LCD display that includes a battery indicator, hour meter, and onboard diagnostics with error codes; and a tight turning radius and fast operating speeds up to 3.2 mph. **Hyundai**,

hyundaimaterialhandling.com.

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Labeling small objects

The 211RHC labeling cell addresses the unique challenges of labeling small, irregularly shaped, and non-stable products such as vials, pens, syringes and cartridges. Traditionally, these products have been labeled using semi-automatic machines. However, the newly developed machine significantly automates this process, enhancing both efficiency and precision, making it a pioneering solution for small-batch pharmaceutical labeling. **Herma**, herma.us.



Lightweight and durable kitting cart

A unique kitting cart has been developed for applications that holds parts which require surface protection. It also provides protection for high-value parts as well as uniquely shaped parts that need to be held in separate compartments. The cart is lightweight and durable for daily use and can be easily adapted. It is built using 28-mm plastic coated steel pipe and metal joints that provide the necessary strength and durability yet allows the cart to remain flexible. It can help maximize storage capacity while minimizing storage footprint. The cart measures 48 x 70 x 80 inches and can hold up to 500 pounds. It features six insert swivel casters for easy, stable and safe movement. **Creform**, creform.com.



High-speed machine for polypropylene strapping

The SM65 automatic strapping machine is a high-performance solution that allows for efficient handling of a variety of strapping applications. It delivers up to 65 straps per minute and is compatible with machine grade polypropylene strapping sizes ranging from 5 mm to .5 inches (12 mm). Its strapping head features 30% fewer components than comparable machines and its One Piece Strap Track reduces dusting and ensures parallel straps, contributing to consistent and professional packaging results. An adjustable height table is also available, as it can range from 32.3 to 36.2 inches tall, allowing for universal ergonomic operation. **PAC Strapping Products**, strapsolutions.com.

Maximized floor space

With an advanced vertical lift module, operations can see transformed warehouse and production environments. The VLM delivers fast, precise retrieval of stored materials at a consistent ergonomic height, streamlining operator workflows and increasing overall productivity. Operations can reclaim up to 85% of floor space previously used by conventional shelving. It also features intelligent height-detection technology that determines exact storage needs for every tray, supporting high-density arrangements and reducing wasted space. With variable tray spacing and modular configuration, the system supports a variety of material types, from small components to raw materials, all within a compact footprint. **VIDIR**, vidirsolutions.com.



Accurate case moving

The Busse/SJI PriorityPal HL Series case conveyor is an application designed for industries that require quick and accurate case moving and sorting like food and beverage. It offers a more robust design to handle greater weight distribution and reduce maintenance downtime in applications where a high-level design is needed. Some of its features include infinite load squaring capabilities, touch-less pattern forming and a high-level design with flexible modular layout footprint, among others. The supplier's ModSort technology can be integrated for a smart, modular solution designed to optimize package handling, especially in high-speed, small-package environments. **Regal Rexnord**, regalrexnord.com.

INTRODUCING THE NILFISK CS7500

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These awards honor the achievements of companies for advances in materials handling systems and equipment within manufacturing, distribution centers and warehouses.

Companies were invited to submit the products they felt were worthy of Product of the Year honors, and *MHPN* readers decided the winners in 14 categories.

In total, we received more than 6,000 votes in an e-mail survey to our readers. We're proud to announce our 2025 Readers' Choice *Material Handling Product News* Products of the Year. Visit materialhandling247.com/readers_choice2025 to view all the entrants



CONVEYORS & SORTATION

Johnson Electric: VersaSort

Johnson Electric's VersaSort system brings high-speed sortation to facilities that need precision in a compact footprint. Powered by the company's small-motor technology, each steerable wheel module has independent control, allowing operators to fine-tune roller angles and maintain tighter spacing between items. The result is throughput of up to 16,800 parcels per hour when paired with

TrueDrive DZC Max conveyors. The modular design supports parcels weighing up to 80 pounds and as small as 3 x 4 inches. VersaSort's bidirectional functionality makes better use of available space, while built-in predictive maintenance tools help reduce unplanned downtime.

Each module can be swapped out in less than five minutes, keeping maintenance simple and productivity high. **Johnson Electric**, Johnsonelectric.com.



DOCK EQUIPMENT

DL Manufacturing: Dynamic Dock Seal

DL Manufacturing's Dynamic Dock Seal solves one of the biggest challenges on the dock: keeping a tight seal when trailers and doors don't line up. Instead of forcing trucks to meet a fixed head pad, the system brings the pad to the trailer. Internal actuators move the head pad down to create a watertight seal that blocks air, water and light while maintaining full access to the dock opening. Dynamic Dock Seal accommodates any trailer and adjusts to different heights, angles and projections without putting pressure on the building or the truck. It connects with automated dock systems, requires little maintenance and gives operators a simple, durable way to improve safety and efficiency across changing dock conditions. **DL Manufacturing**, Dlmanufacturing.com.



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LIFT TRUCK ACCESSORIES

Hyundai Material Handling: B-X Series Forklift

Hyundai Material Handling developed its B-X High Voltage Electric forklifts in anticipation of the California Air Resources Board (CARB) zero-emissions rules, which take effect on January 1, 2026. The UL-certified B-X Series offers a cost-efficient alternative to diesel forklifts, with a lithium-ion battery system that delivers comparable lift, lower and travel speeds along with strong gradeability and a tight turning radius. The forklifts reduce carbon emissions and lower total cost of ownership while cutting noise by up to 12 decibels compared to diesel models. An advanced LCD cluster, precision climate control and a Grammer suspension seat help boost operator comfort and performance during long shifts.

Hyundai Material Handling, [Hyundaimaterialhandling.com](https://hyundaimaterialhandling.com).

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ROBOTICS: PIECE PICKING

AutoStore: CarouselAI

Designed for high-speed precision, CarouselAI delivers up to 650 picks per hour for more than 16 hours of continuous operation. The system handles about 90% of typical e-commerce SKUs, including irregular, fragile and bulky items, making it adaptable across industries. As a native extension of the AutoStore system, CarouselAI connects directly to the CarouselPort for plug-and-play integration. Existing users can upgrade through CarouselAI Upgrade without major infrastructure changes, while open application programming interfaces (APIs) ensure easy connection to warehouse management systems. It helps operations meet demand without adding

labor and now runs in more than 1,750 AutoStore systems across 60 countries. [AutoStore](https://autostore.com), [Autostoresystem.com](https://autostoresystem.com).

AssetTracer

AUTOMATED STORAGE

Real Time Networks: Intelligent Lockers AssetTracer

Keeping scanners, tablets and other electronic equipment charged, accounted for and ready to use is a daily challenge in busy warehouses. Real Time Networks' AssetTracer system solves this by combining secure storage, charging and automation in one modular locker solution. Units can be scaled to match each facility's footprint and device portfolio, while built-in software tracks every checkout and return. Users authenticate before access, and the system logs each transaction for visibility and accountability. Custom workflows can trigger checklists, enforce return deadlines or prompt inspections to improve compliance and process control. By pairing modular hardware with real-time data, AssetTracer helps warehouses manage shared equipment and electronic devices more efficiently and with less downtime. [Real Time Networks](https://realtimenetworks.com), [Realtimenetworks.com](https://realtimenetworks.com).



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ROBOTICS: MOBILE

Contoro: Automatic Trailer Unloader (Dock Duck)

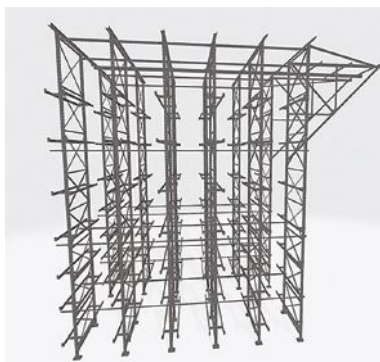
Unloading floor-loaded trailers is one of the toughest jobs in a warehouse. Contoro Robotics tackles it with the Dock Duck, a mobile robot that works inside non-palletized trailers to pick and move boxes automatically. Operators guide the robot into position with a handheld controller, then the system uses an articulated arm to place boxes onto a powered conveyor that connects directly to the receiving dock. A safety fence and automatic e-stop ensure safe operation, while Contoro's Austin-based Command Center monitors each robot remotely. The Dock Duck can handle boxes as small as 8 x 8 x 8 inches and as large as 30 x 30 x 30 inches, weighing up to 65 pounds per box. **Contoro Robotics**, [Contoro.com](https://www.contoro.com).

MRO

Nilfisk: CS7500 Combination Sweeper-Scrubber

Keeping large industrial floors clean requires equipment that can handle long shifts and tight spaces without frequent maintenance. Nilfisk's CS7500 combination sweeper-scrubber is built for that task, using ergonomic controls and a lithium-ion battery system that delivers up to 7 hours of runtime per charge. The fast-charging battery helps reduce downtime and energy use, keeping cleaning schedules on track. Its compact footprint and tight turning radius allow operators to reach narrow aisles, production lines and congested areas that larger machines can't access. Designed for consistent daily use, the CS7500 simplifies operation while maintaining power, performance and endurance.

Nilfisk, [Nilfisk.us](https://www.nilfisk.us).



RACKS & SHELVING

Steel King: SK ADVANTX Structural Bolted Racking

Steel King's SK ADVANTX Structural Bolted Racking uses a patent-pending, bolt-together design built from structural steel posts and braces assembled onsite. The non-welded construction shortens fabrication lead times and allows customization for conveyor windows, deep uprights, X-braced paneling and other design requirements, including high seismic or wind loading. In cold storage environments, where tight spacing often leads to impact damage, individual components such as braces can be replaced quickly without welding. The result is a durable, modular racking system that enables faster installation, simpler maintenance and long-term adaptability in demanding warehouse settings. **Steel King**, [Steelking.com](https://www.steelking.com).



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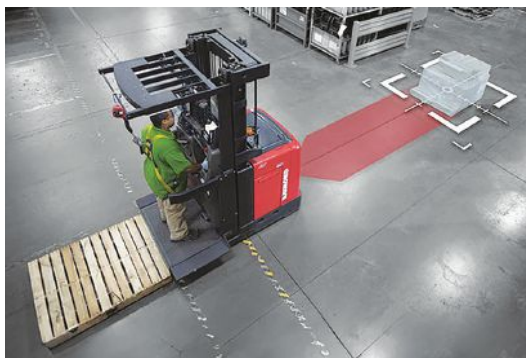
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PACKAGING & PALLETS

Packsize: X6 Machine System

Fast-moving e-commerce and fulfillment operations rely on packaging systems that can adapt to constant order changes without slowing output. The X6 Machine System from Packsize produces up to 1,500 right-sized boxes or trays per hour, helping facilities keep pace with variable shipping volumes. It's also the first model in Packsize's X-Series that makes boxes small enough to replace plastic poly mailers, offering a more sustainable option for small-item shipping. Designed for products like handheld electronics and apparel, the fully automated system reduces waste, material use and labor costs while improving throughput and consistency across diverse order profiles. **Packsize, [Packsize.com](https://packsize.com).**



SUPPLY CHAIN SOFTWARE

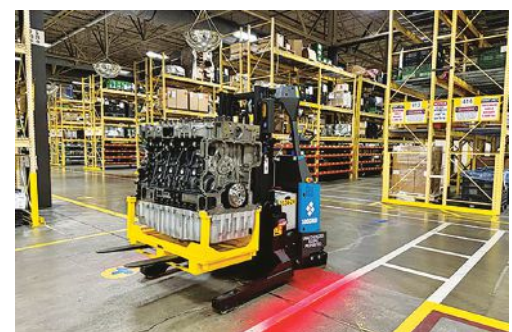
Raymond: iWarehouse ObjectSense Detection & Notification Systems

Every movement on the warehouse floor creates data that can be used to improve safety and efficiency. Raymond's iWarehouse ObjectSense Detection & Notification System captures that information in real-time, alerting operators to potential hazards while giving managers detailed insight into facility activity. Each alert becomes a record that can be used to evaluate operator behavior, refine training programs and reduce slowdown events. The system installs easily on new Raymond trucks or can be retrofitted to existing fleets without the need for major infrastructure changes. When connected to the broader iWarehouse ecosystem, ObjectSense gives managers a clearer view of how equipment and operators interact across daily workflows. **Raymond, [Raymondcorp.com](https://raymondcorp.com).**

AGVs

Seegrid: RS1 Autonomous Fork Truck

Autonomous lift trucks are taking on more complex work inside warehouses, moving pallets between staging, storage and production areas with increasing precision. Seegrid's RS1 builds on that progress by automating tasks like destacking, lane building, putaway and buffer management that once required manual handling. It also links with robotic cells and outbound operations through integrations with PLCs, WMS and MES platforms, bar code scanners and safety systems. The truck installs quickly and can be scaled across fleets without disrupting operations. In mixed-traffic environments, it helps facilities move materials safely and consistently while freeing workers for higher-value tasks. **Seegrid, [Seegrid.com](https://seegrid.com).**



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RAYMOND



ERGONOMICS & SAFETY

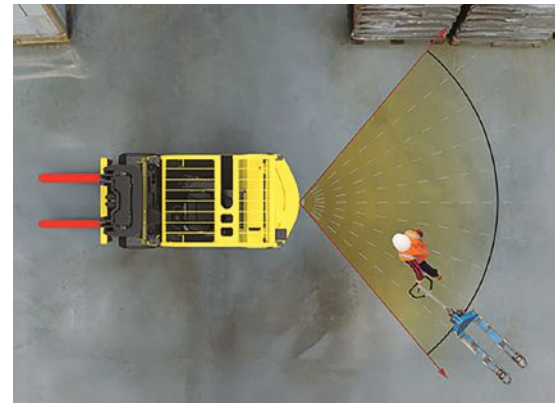
Raymond: Heavy Duty Stackers

Built for high-capacity handling in tight warehouse spaces, the Raymond Heavy Duty Stackers are available in three models: the 6410 Walkie Reach Stacker, the 6510 Walkie Counterbalanced Stacker and the 6310 Walkie Straddle Stacker. Each model balances power and precision while using lithium-ion batteries that deliver consistent energy and longer runtime to reduce interruptions. Operators benefit from ergonomic features such as power-assist steering and a side-shift carriage for accurate load positioning. Optional iWarehouse telematics integration gives managers visibility into performance and maintenance needs and helps fleets stay productive and responsive to changing workloads. **Raymond, Raymondcorp.com.**

AUTOMATIC DATA CAPTURE

Hyster: Pedestrian Awareness Camera

Navigating a crowded warehouse on a lift truck leaves little room for error. Hyster's Pedestrian Awareness Camera adds an extra layer of protection with photo-based object detection that helps operators spot potential hazards. Using extensive visual data collected from active worksites, the system adapts to changing light and environmental conditions indoors or out. It's optimized for travel speeds of 5 miles per hour or less and can detect pedestrians up to 16 feet away within a 110-degree view. When someone enters the detection zone, the system issues visual and audible alerts, and disengages once the area is clear. Optional traction alerts automatically slow the truck, giving operators more time to react safely. **Hyster, Hyster.com.**



TUGGERS, CARTS & CASTERS

Yale: Direct-Store Delivery System

Delivery drivers often move between tight store aisles, uneven parking lots and busy retail entrances where space and safety are constant challenges. Yale's Direct-Store Delivery System helps bridge that gap with a modular setup built around a base pallet jack, a motorized sled and low-profile pallets. The nested design combines two pieces of equipment in one, freeing space inside trailers and eliminating the need to haul both a pallet jack and hand cart into each stop. The sled detaches easily for use in confined areas and provides power assist on ramps, thresholds and inclines. By lifting the load platform, the Direct-Store Delivery System also reduces bending and lifting during restocking, helping drivers work more safely and efficiently throughout the day.

Yale Lift Truck Technologies, Yale.com.

Mativ slashes detention costs with connected dock visibility

Digital visibility helps specialty materials manufacturer reduce detention costs by 90%, improve trailer turns and strengthen dock safety.

Headquartered in Alpharetta, Ga., Mativ Holdings produces specialty materials for customers in more than 100 different countries.

With manufacturing sites in North America, Europe and Asia, Mativ produces specialty materials like filter media, engineered films, nets, tapes, labels, liners and other products for customers in the healthcare, automotive, industrial, construction and consumer goods markets (among others).

Like most growing manufacturers, Mativ works hard to keep its logistics operations aligned with rising production demands.

Its Middletown, Del., site was facing mounting bottlenecks. Trucks often waited up to five hours, detention fees topped \$100,000 a year and managers lacked critical data.

The company has about 250 employees at the site, where the dock team wasn't getting real-time data from its loading dock equipment. As a result, Mativ couldn't scale

operations safely or efficiently.

With only handwritten logs to record trailer arrivals and departures, Mativ had no reliable timestamps to hold carriers accountable. Equipment utilization patterns were hidden, manual processes couldn't keep up and the lack of visibility strained both employees and transportation partners.

"If a carrier says they've been here forever, we [had] no way to prove it," says Shannon Daniels, warehouse manager. "And if no one's accountable, that's a problem waiting to happen."



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As Mativ's production volumes grew, the company turned its attention to improving flow through its shipping docks. Its local supplier (Rite-Hite) recognized the challenges and introduced the Rite-Hite ONE dock management platform, a system that connects loading dock equipment and industrial doors to a cloud-based analytics dashboard.

By connecting dock equipment to the digital platform, Mativ replaced paper logs with live, equipment-based visibility and gained timestamped proof of each trailer movement.

Detention costs dropped by 90%, from about \$100,000 to \$10,000 annually. Real-time insights helped balance workloads and improved safety across the operation.

Mativ's trailer turnarounds dropped from 5 hours to 2 hours and throughput increased by 50%. Wheel chocks

were replaced with connected vehicle restraints that communicate directly with Rite-Hite ONE, effectively improving visibility, accountability and safety across shifts.

The site has seen a 60% reduction in backlog and consistent sub 2-hour trailer turns. Integrated sensors and vehicle restraints at the loading dock feed live data to monitor dwell and



The dock management platform connects dock equipment and industrial doors to a cloud-based dashboard.

detention analytics and track how long trailers have been engaged. Teams can act before delays turn into costly downtime. Mativ's maintenance teams use the platform's asset lifecycle tracking to spot wear-and-tear trends early and schedule service before failures occur.

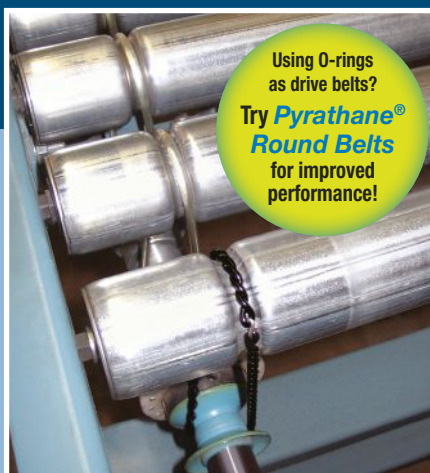
The company's managers and leaders now have the utilization analytics that help them visualize how each dock position is used across shifts and facilities—an improvement that drives both accountability and smarter labor allocation.

Mativ's managers use the platform's live operations view for a near-real-time picture of every dock position without leaving their desks. "Now we keep Rite-Hite ONE up on our screen," says Daniels. "It shows me things I need to see to make the proper changes."

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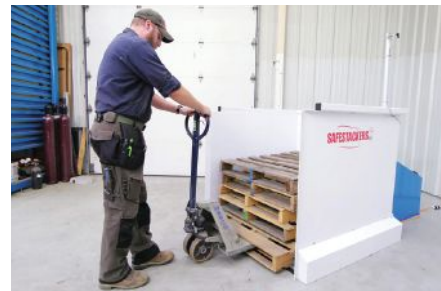
Scissor lifts for lifting and rotating

The Lift and Turn (PM) and (PP) Series scissor lifts are built for applications requiring the independent lifting and turning of products, improving ergonomics and enhancing safety in industrial settings. They feature Platform Centering Devices, which can double or triple the life of the equipment by maintaining platform alignment under load. Machine-grade hydraulic cylinders, and double wire braid pressure hoses with JIC fittings are included as standard. The PM model offers a manual turntable for applications where powered rotation is unnecessary, providing a cost-effective solution without sacrificing performance. The PP model features powered rotation for smooth and precise turning that enhances ergonomics and operator control. **Advance Lifts**, advancelifts.com.



Powered tote lifters

The DC Powered Tote Lifter series offers five different models designed to lift open bottom skids, boxes and baskets. They include automatic stabilizers once the lift reaches a designated height operated by a rocker switch. A 12V DC battery with an on-board battery charger comes included. Front rollers and two rear swivel casters made from poly-on-steel allow for easy portability. However, the lifters do not work with closed bottom pallets, only open bottom. **Vestil**, vestil.com.



Automated pallet stacking

SafeStackers is engineered specifically for the receiving side of warehouse operations. It stacks and unstacks pallets quickly and safely, which can eliminate the need for manual handling and reduce the risk of workplace injuries. Using a programmable control system and sensor-guided forks, it delivers uniform pallet stacking while keeping workers out of harm's way. The machine helps reduce labor costs and increases operational efficiency by freeing up workers and forklifts for higher-value tasks. **SafeStackers**, safestackers.com.



Line of electric stackers

A new lineup of heavy-duty electric stackers includes the Walkie Reach Truck, Walkie Straddle Stacker and Counter-Balanced Stacker. The Walkie Reach Truck offers maneuverability and a maximum capacity of 3,000 pounds, good for flexibility in narrow aisles. The Straddle Walker can lift up to 4,000 pounds and works best for retail or other high-volume applications. The Counter-Balanced Stacker can lift loads ranging from 2,000 to 4,000 pounds, making it ideal for applications where base legs and obstacles could interfere with pallets. **Toyota Material Handling**, toyotaforklift.com.

Tube mounts for materials handling

The 2- to 3-inch Tube Mounts are made from Single and Dual Guard Leg Mounts, built to fit most forklift uprights ranging from 2 to 3 inches in diameter. They can securely mount peripheral devices like pistol-grip scanners, minimizing drops and potentially expensive damage to equipment while also providing easy access. The mount can also be swiveled and moved at any time to ensure comfort and safety. **Gamber Johnson**, gamberjohnson.com.



Handheld scanner protection

For operations that want to ensure protection for their handheld devices as they move throughout a facility, their newest options are the 3143 Barcode Scanner Sling Lanyard, engineered with ergonomic padded shoulder straps for all-day comfort and secure device carrying, and the 5549 Tablet Holder with Detachable Shoulder Strap, which offers versatile, hands-free tablet transport and quick access for workers on the move. These solutions provide drop protection, easy access and full control, all within simple reach. These devices are rugged and are prepared to protect in demanding work environments. **Ergodyne**, ergodyne.com.

Heavy-duty mobile strap dispenser

The DSP-TOOL is a heavy-duty mobile strap dispenser that enhances operators' ergonomic efficiency. Its boom arm with tool balancer provides comfort while protecting battery tools from accidental drops. Additionally, the pivoted dispenser reel allows for ease of coil loading in the correct "eye to the sky" orientation, making it ideal for fast-paced environments. Wide static casters are placed at the back of the cart alongside swivel casters found on the front. **PAC Strapping Products**, strapsolutions.com.



Combined illumination and status indication

A new generation of LED luminaries provide operations with the ability to integrate workplace illumination with process status indication in a single system. They can emit a clear white light for illumination purposes or RGB process signals for clear visual communication, enhancing safety, ergonomics and efficiency. The lights themselves are built for robust environments, including a IP69K certification for protection against dust, water, oils, chemicals and intensive cleaning processes. Overall, they include a service life of over 50,000 operating hours. **binder**, binder-usa.com.

Efficient high-density storage

Coming in a full range of models, the Kardex Shuttle Vertical Lift Module is an automated storage and retrieval system that can maximize every inch of space from floor to ceiling. Items can be requested and received by an operator at a single ergonomic delivery site, reducing operator strain and improving their workflow. The system achieves up to 99.9% picking accuracy, reducing costly errors and improving order fulfillment efficiency. The line comes in four models, the light-duty Shuttle 250, medium-duty Shuttle 500 and 700, and the Shuttle 1000 engineered for heavy goods. **Kardex**, kardex.com.



More accessible AS/RS

The new HaiPick Climb brings the benefits of AS/RS to more warehouses without the cost or complexity of traditional systems. Powered by compact climbing robots,

the solution mounts to standard racking with minimal facility prep, cutting implementation time and expense. Warehouses can boost throughput, increase storage density and scale as needed, all while eliminating manual travel for picking. With tote delivery speeds up to 34% faster than traditional AS/RS and storage density gains of up to 75%, the solution gives warehouses a smarter, simpler path to high-efficiency inventory storage and fulfillment automation.

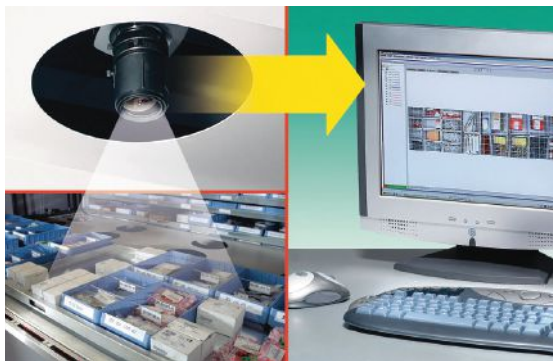
Hai Robotics, hairobotics.com.

Tote handling using robots

The Perfect Pick Tote IO is an automated tote handling system that leverages iBOTs and conveyors to move totes in and out of storage efficiently. It integrates with warehouse control systems

to support flexible layouts and multiple tote sizes, adapting easily to different operational needs. Clients benefit from

higher throughput, improved accuracy, reduced labor costs, and better use of warehouse space. This creates a scalable, reliable solution that supports long-term efficiency and growth. **OPEX**, opex.com.



Visual verification for vertical storage

PictureControl is a system that adds the ability to visually confirm every machine transaction. The technology boosts efficiency and security throughout facilities by automatically capturing an image of the shelf for each transaction and archiving these for review. Users can also select from the controller image and automatically deliver those items to the access point. The system tracks the goods, as well as who is accessing them at any given time. When items are ready to be placed back into the machine, the system also guides the operator to the correct placement within the container. **Hanel Storage Systems**, hanel.us.

Intelligent automation in distribution centers

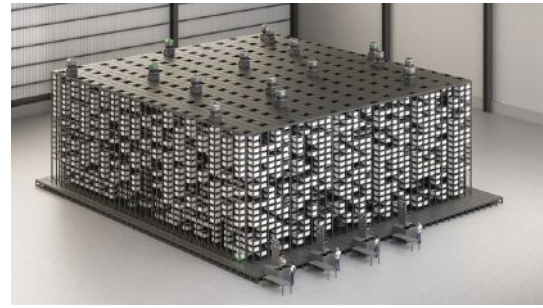
ADAPTO is a high-performance AS/RS that includes multi-directional roaming shuttles and advanced sorting capabilities. It is built to increase overall throughput and decrease picking errors. The system works ahead of itself, dynamically placing each item in the optimal storage position for its next expected pick. Its modular design means storage density can be easily increased by adding rows, aisles, lifts or shuttles without disrupting live operations. Overall, it eliminates the high amounts of time workers can spend manually picking. **Vanderlande**, vanderlande.com.





Automate pallet handling

The Pallet Shuttle is a solution designed to unlock the full potential of a warehouse's operations, automating its pallet handling and boosting overall efficiency. It can maximize storage density, increase throughput and streamline the flow of goods. Some of its key features include four times greater storage density, maximized system availability, and real-time monitoring and data-driven insights. It is well-suited for industries requiring high throughput, flexible storage in temperature-controlled environments and reliable performance. **Dematic**, dematic.com.



Solution for space and throughput issues

A cube robotic AS/RS is now available for operations with space issues, eliminating traditional aisle requirements and maximizing the amount of vertical space used in facilities. Its AI-driven robots can navigate a three-dimensional grid structure, reaching heights up to 125 feet and handling loads up to 100 pounds in either cases or totes, overall delivering up to 500 totes per hour. The system can achieve three to four times the storage density of conventional racking while integrating with new or existing AMR bots, conveyor systems and warehouse management software systems. **ISD**, isddd.com

AS/RS with minimal infrastructure requirements

FORTNA's partnership with Hai Robotics provides AS/RS solutions with minimal infrastructure requirements compared to traditional aisle-based approaches. This approach to storage and retrieval uses a robot that attaches to one side of standard racking, which enables reduced implementation time and cost, and offers the flexibility to accommodate the needs of a broader range of applications—including retrofits to existing facilities. This configuration allows the robot to deliver totes to workstations more efficiently than aisle-based AS/RS while reducing the overall storage footprint. This solution offers a narrow aisle solution for an expanded range of applications and can accommodate a range of product sizes and heights. **FORTNA**, fortna.com.



High-level vertical sheet metal storage

The Dual-Tower Sheet Metal Vertical Lift System can meet an operation's demand for efficient and ergonomic sheet metal storage. Its approach of incorporating two service towers delivers double the storage capacity and operational efficiency in a compact footprint that saves valuable floor space, without the need to install two separate units. Operations can store 290,000 pounds of sheet metal in just 280 square feet, with fewer moving parts and reduced service needs compared to traditional dual-unit installations. Overall, it is ideal for storing standard sheet sizes such as 4 x 8 feet, 5 x 10 feet and 6 x 12 feet. **Vidir**, vidirsolutions.com.

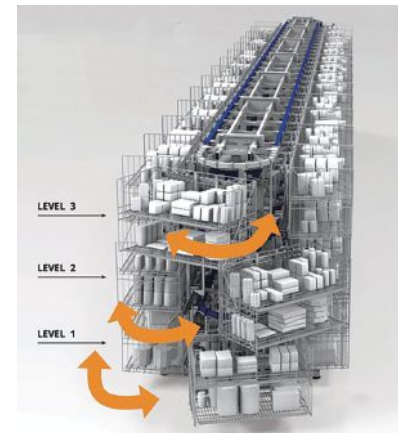


Hybrid-environment crane

The Vectura crane performs equally well in frozen warehouses at -30°C and ambient environments up to $+50^{\circ}\text{C}$. Operating at heights up to 50 meters, it handles everything from car bodies to boats. Engineered for efficiency, it consumes up to 20% less energy than conventional cranes. Paired with Swisslog's SynQ software, it enhances material flow and warehouse intelligence delivering performance, versatility, and pallet stacking know-how. **Swisslog**, swisslog.com.

Horizontal carousels with three levels

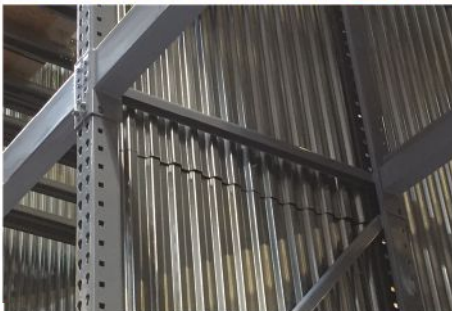
MetalProgetti Trident horizontal carousels are enhanced with three fully independent operating levels, tripling performance. While one level serves the operator, the other two keep moving, enabling simultaneous picking and refilling with zero downtime. This continuous flow delivers measurable results with orders up to 60% faster and 50% less floor space required, with operations managed in a precise and reliable way. Integrated with Magic Warehouse software and interfacing seamlessly with any ERP or WMS, Trident provides real-time control of batching, slotting, replenishment and inventory. When product that moves instead of the operator, the result is greater ergonomics, enhanced safety, maximum productivity. **AS/R Systems**, www.asrsystems.com.



Fire Barriers

Today's warehouse fire protection systems include more than just pipes and sprinklers. When the products being stored include highly flammable items such as plastics, aerosols, liquors or oils, fire barriers may be required inside the racking structure.

Solid steel rack decking and flat sheet accessories from DACS make effective fire or heat barriers in warehouse environments. They can be used on storage racks horizontally or vertically to block the spread of fire, or to capture heat for in-rack sprinkler activation.

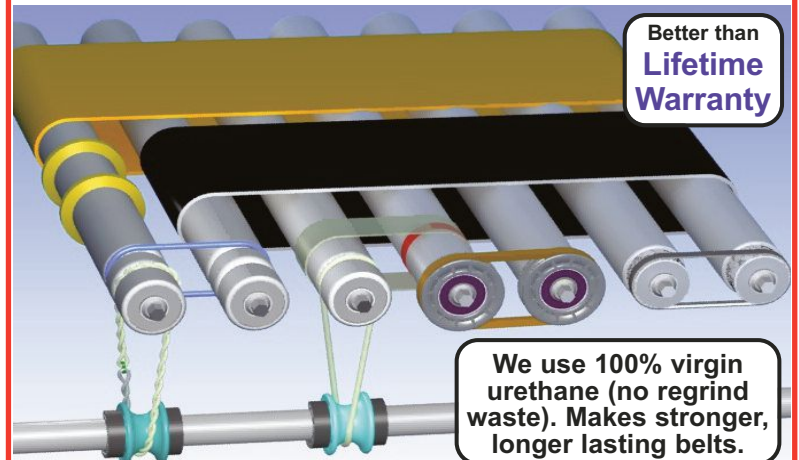


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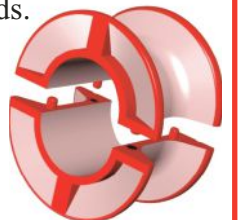
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No-weld bracing

For operations where welding is not permitted, a line of no-weld adjustable bolted bracing is engineered specifically for edge-of-mezzanine applications in indoor and outdoor environments. This eliminates the need for site welding and cutting, making installation a safer and more efficient process overall. The bracing arms can be custom cut, ensuring a precise fit and easy assembly. There also should not be much need for on-site modifications. The bolted bracing is seismic rated and PE certified, providing peace of mind for facility owners in even the most demanding environments. **PFlow Industries**, pflow.com.



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BULK STORAGE IN STOCK



COLLAPSIBLE WIRE CONTAINERS



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PALLET RACK PROTECTION

The BeastWire pallet rack safety solution is a durable wire-mesh panel that mounts to pallet racks to keep stored items contained and secure. It is created for operational efficiency and safety, delivering a durable product that can be integrated simply. The solution adapts seamlessly to nearly any rack configuration and saves valuable time and labor on retrofits and new projects. Overall, it keeps workers throughout a facility safe by preventing falling objects, blocking them using the wire-mesh that holds stronger than any other netting. **SpaceGuard**, spaceguardproducts.com.

LITHIUM-ION STACKER SOLUTION

The Raymond RBS26-F Stacker is a lithium-ion powered fork-over stacker that includes high compatibility with skids, crates, containers and platforms without bottom boards. It is highly maneuverable and versatile, allowing for overall easier moving and stacking of products while reducing fatigue. The stacker features the ability to lift loads of 1,480 to 2,600 pounds to heights between 72 and 114 inches. Some interesting moving options such as turtle speed, creep mode and dual thumb controls simplify the operating experience. **Raymond Corp**, raymondcorp.com.



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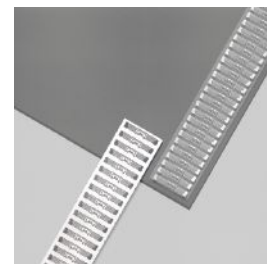
The Octopus Prestige stretch wrapper is a standard wrapper that offers new advancements such as increased speed and reduced film usage due to its Double-S film carriage system that helps improve film conversion. It is also built to last on top of its smart features and efficient operation. Octopus stretch wrappers overall can simplify the wrapping of any load, from single wrapping to double wrapping, band wrapping and flex roping. **Signode**, signode.com,

LOADING DOCK GATE WITH FLEXIBLE SIZING

The EdgeSafe Smart Gate offers operations a safety solution that can be applied to loading docks, railing openings and machine guarding, among other applications. The gates come in single and double configurations with an electric operator being an optional add-on. Other benefits include increased safety, flexible sizing, a slam-proof design, high clearance and a rugged frame built to last. The gates ship through traditional services and simply bolt into existing concrete once fully assembled. An optional toeboard for increased edge protection is sold separately. **PS Industries**, psindustries.com.

INTELLIGENT LABELING SOLUTIONS

Labeling solutions now feature Impinj M800 series chips with support for Gen2X, which supports enhanced inventory control, item tracking and anti-counterfeiting measures. These enhancements address critical enterprise challenges such as speeding up inventory processes, improving tag read ranges and reducing operational costs, especially for operations with denser facilities. It also supports more sustainable practices by reducing waste through precise inventory management and enabling circular economy initiatives. **Avery Dennison**, averydennison.com



SUSTAINABLE WRAPPING

The Technoplat PW is a sustainable wrapping system designed to make packaging more environmentally friendly. It uses 100% recyclable paper as an alternative to traditional stretch film, ensuring optimal load protection and stability. It has the ability to wrap a pallet in 45 seconds, doing so in a single layer, promoting reduced material usage. Safety mats can deactivate the device at a moment's notice before resuming operation. Customization is also available with recipe-based wrapping profiles for different load types. **Robopac**, robopac.com.



The Fully Automated X6® Packaging System



The Fastest On Demand Packaging Machine

The fully-automated X6® machine system is the highest throughput erected box-making machine on the market and first to produce ready-to-pack boxes and trays and trays.

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- Create boxes or trays
- Produce boxes small enough to fit through an envelope slot
- Integrate with leading warehouse automation

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 **PACKSIZE®**



CHAIN PACK BAGGING OPTION FOR AUTOMATIC BAGGER

The Rollbag R785 automatic bagger now has a chain pack bagging option, allowing users to create a chain of bags connected by perforated edges, which provides greater flexibility and efficiency for a range of applications. Operators can select the bag size, activate the chain bag setting, enter the desired number of bags per chain and save the recipe for repeat use. The machine as a whole can run up to 40 bags per minute depending on the application and requires no compressed air. By keeping bags in a strip, customers can streamline packaging, storage and product handling. **PAC Machinery**, pacmachinery.com.

AI WAREHOUSE AGENT THAT CAN SAVE HOURS A DAY

The Warehouse Decision Agent is an AI sidekick for daily coordination. Operators can upload schedules, instantly receive optimized plans, identify risks, run scenarios and generate ready-to-use updates. Whether drafting e-mails to carriers, prepping a shift change, or creating a performance report, it takes care of the busywork so coordinators can stay focused on keeping operations moving. Organizations that use the system can see 35% increases in throughput, 8% to 12% labor productivity gains and significant reductions in short-ships, planning time and detention costs. **AutoScheduler.ai**, autoscheduler.ai.

AI-READY TABLETS

A new line of rugged tablets, the DT302PA, DT312PA, DT323PA and DT340TA are all ready for AI integration and are engineered to meet the needs of modern data management in industries such as logistics and healthcare. The line's main features include high-resolution, sunlight-readable, touch displays, with IP65 and MIL-STD rated designs. It also includes Intel Core Ultra 12-core processors with built-in NPU (Neural Processing Unit) dedicated AI accelerator to infuse dynamic advancements with the highest level of performance. **DT Research**, dtresearch.com.



DIRECTLY USABLE SENSOR MODELS

The new virtual sensor models of the LiDAR sensors MRS1104C, multiScan156, picoScan150 and TiM781, the safety laser scanners nanoScan3 and microScan3, and the vision sensors Inspector83x and safeVisionary2 can be integrated directly into existing projects with NVIDIA Isaac Sim without additional modifications. The sensor models are integrated as metadata of visual USD models. They are available on the Isaac Sim platform and SICK channels. The sensor models have also been designed in such a way that they can be flexibly adapted to customer requirements with regard to level of detail and sensor variance. **SICK**, sick.com.

LIGHT- TO MEDIUM-DUTY TABLET

The xTablet Flex 10C is a rugged mobile computing solution built for light- to medium-duty applications including triple the memory, nearly four times the disk performance and significant CPU improvements compared to its previous model. It weighs less than 2 pounds with an ergonomic handle and hand strap for all-day use. The tablet offers adequate protection against 5-foot drops and other day-to-day wear, ongoing support and investment protection and streamlined IT management. Ideal applications include warehouse operations, retail and point of sale and field service. **MobileDemand**, mobiledemand.com.



HIGH-CAPACITY SOLUTIONS FOR LIGHT- TO MEDIUM-DUTY OPERATIONS

The UT Series of forklifts now include higher-capacity internal combustion engine (ICE) models, designed to meet the less demanding materials handling needs within intense industries. The lineup includes the 8,000 -to 10,000-pound capacity H80-100UT and 11,000- to 15,500-pound capacity H110-155UT, which can be reliable and cost-effective solutions to maintain productivity. Ergonomically, they include a wide-view mast for visibility, a 3.5-inch LCD display and an automotive-style layout that helps operators remain comfortable and efficient. There is also a steel overhead guard and high-strength roof for operator protection. **Hyster**, hyster-yale.com.

ADVANCED WAREHOUSE AUTOMATION

When pairing the new Sure Sort X and Xtract systems, operations can see a fully automated order retrieval system. The whole system can handle almost 100% of customer-sortable items up to 20 pounds, and sort them into a variety of bin sizes and types. Sure Sort X can handle items 60% smaller, 20% larger and 300% heavier than previous versions of the technology, maintaining a throughput of 2,100 items per hour. Xtract can be added to any Sure Sort X system through the introduction of iBOT delivery vehicles that can drive in and out of the system as it runs. The robots are self-charging and can be easily added or removed from the system.

OPEX, opex.com



STREAMLINED PERSONALIZATION TOOLS

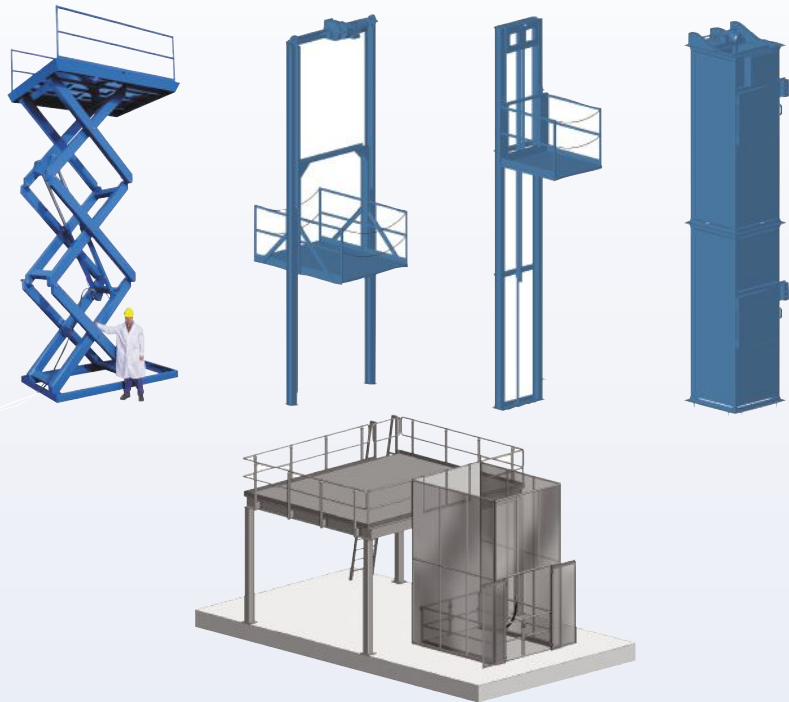
The newly launched Build My Truck feature can help simplify the lift truck purchasing process. When used in conjunction with the Forklift Product Selector, it helps customers create lift truck configurations to meet their requirements and specific application needs. Using selection categories in the Forklift Product selector, such as capacity and lift height, customers can use the feature to select a lift truck based on their specific application and then configure the product with individual options or pre-selected option packages that meet their application's requirements.

Crown, crown.com.



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ULTRA-RUGGED INDUSTRIAL COMPUTERS

The Karbon 520 Series of industrial high-performance computers uses the latest Intel Core Ultra processors and are designed for scalable performance. The computers feature enhanced ruggedization, a wider operating temperature range and automotive power capabilities, which make them ideal for deployments in the type of extreme industrial and mobile applications that are at the forefront of today's technology innovations. The computers' other key features include advanced thermal management with a -40°C to 70°C operating temp, and a high level of reliability with MIL-STD-810H and 60601-1-2 Medical EMC immunity certifications.

OnLogic, onlogic.com.

AI-DRIVEN PALLETIZER

The AI-driven Mixed Palletizer automates the stacking of mixed-sized products onto a single pallet, which enables flexibility, efficiency and seamless integration into existing processes without operational disruption. The product is designed for industries like e-commerce, where products can arrive in a predetermined order. And using AI, it can figure out the optimal placement of each box for space-efficient pallets. It can also be a pillar of workplace safety, as most repetitive, manual tasks can be automated, which eliminates injury risk. Return on investment can also be maximized.

FlexLink, flexlink.com.



HEAVY-DUTY MACHINE GUARDING

A new line of Heavy-Duty Aluminum Machine Guard Safety Fencing provides durable perimeter guarding, engineered to provide a robust physical barrier around industrial machinery, robotic work cells and automated equipment, enhancing workplace safety and compliance. The guarding is made from heavy-duty Aluminum Alloy 6063, which will not rust or corrode throughout the use life of the product. The system is also sold in individual panels and uprights, allowing for the creation of custom layouts. Its openings are also 2.375 x 2.375 inches, allowing for peak visibility.

NewAge Industrial, newageindustrial.com.

STREAMLINED LUBRICATION OPERATIONS

The Motion Lube Caddy is a self-contained and towable lubrication cart designed so it can easily service enclosed machinery assets. It can be used on hydraulic systems and service enclosed gearing assets. Its main features include a towable dual reservoir with 40- and 75-gallon options (a 150-gallon hoistable option is also available) to enable seamless oil changes and three operation modes, including manual, auto and kidney loop. It has an air-operated pump with an automatic shutoff, which allows hands-off operation.

Motion, motion.com.



CENTRALIZED DATA

The Digital Link, powered by GS1, is the next evolution of bar code technology. It connects the GS1 application identifiers for a specific product, such as the Global Trade Item Number, batch number, best-before date and serial number, to the internet. It enables real-time access to B2B and B2C information. From traceability and authenticity to sustainability data and e-commerce links, the product transforms packaging into a digital gateway, delivering value across the supply chain.

Markem-Imaje, markem-imaje.com.

VERSATILE WEIGHT INDICATOR

The ZM223 Weight Indicator is designed for weight monitoring, data collection and cloud-based data storage, enabling full process visibility in environments ranging from production lines to warehouses. It comes housed in a durable IP69K stainless steel enclosure with a large 1.5-inch color-changing display, making it ideal for applications where clarity, speed and durability are needed. The indicator comes standard with RS232, USB, Bluetooth, Ethernet, Enet/IP, Modbus TCP, and a 16GB micro-SD card, making for easy set up and integration. Remote control is fully available through the supplier's Remote Assist Mobile Application. **Avery Weigh-Tronix**, averyweigh-tronix.com.

HIGH-PERFORMANCE BAGGING

The MVC-250 is a continuous box-motion bagger with a high-performance servo system for unprecedented precision motion control. A low-profile machine, about 62 inches in height, it is designed to fit into tight spaces or areas with low ceilings, and can reach speeds up to 200 cycles per minute. One of its main features is a continuous-motion, high-speed jaw system where the film never stops. The jaw system seals and cuts the film and allows adjustable seal times for the cross seals to properly seal many types of films. This feature allows users to achieve higher fill rates.

Matrix, matrixpm.com.



ENTRY-LEVEL LIFT TRUCKS

Breeze is a series of entry-level electric forklift trucks that offer affordability, reliability and practicality without compromising on outside factors. The series includes a four-wheel electric truck, a three-wheel option and a pallet truck. They work best when used in short bursts or intermittently, powered by a high-performing EVE lithium battery that can be charged with a standard plug using the convenient on-board charger. **HCUK**, hcforklifts.co.uk.

MOBILE COMPUTING

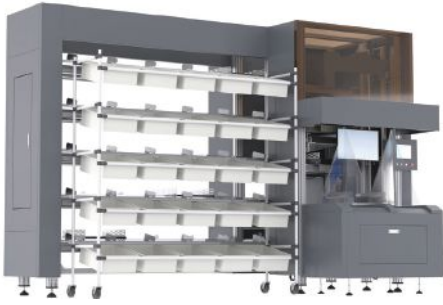
The Memor 17 mobile computer can be used with the Rover clinical mobile application, giving system integrators, resellers and hospital IT departments a full and complete solution. Rover allows users to record documentation and bar code scanning right where it is needed using its advanced DL2121 scan engine and the multi-side NFC reader. The full-touch computer with fast, easy scanning and uninterrupted coverage helps front-line healthcare professionals deliver the highest standards of patient safety, data access and workflow efficiency. **Datalogic**, datalogic.com.



REDUCED SHIPPING EMISSIONS AND WASTE

EdgePak Collar is a lightweight, fiber-based alternative to wooden pallet collars, which is ideal for one-way shipment in industries such as automotive, among others. Consistent use can result in 34% lower CO2 emissions, 49% less landfill waste and 40% less weight than wooden solutions reducing air freight by up to 16%. Integration into a system is seamless, and assembly can be quick, with flexible height and standard sizes ensuring compatibility with existing processes. **Nefab**, nefab.com.

Advanced sortation solution



The Robotic 3D Sorter Mini-Putwall System is an advanced sortation solution that transforms warehouse operations through its innovative three-dimensional design. From the start, it can offer up to 70% labor savings and a full ROI in under a year. It uses vertical and horizontal space to minimize footprint while maximizing sortation capabilities, offering a throughput of up to 1,500 pieces per hour and three to five times greater sorting efficiency compared to manual methods. The return on investment is formulated by the combination of labor savings, improved throughput and reduced error rates. **ISD, isddd.com.**

Generative AI assistant

The RobotStudio Suite now offers a generative AI assistant with the ability to help make programming easier and more efficient. It is powered by a large language model, drawing from the supplier's comprehensive library of manuals and documentation to deliver high-quality, context-rich responses to questions. With this advanced level of accessibility, smaller businesses or those new to robotics will have an easier time understanding and adopting the technology in their day-to-day life. Experienced users will also have the assistant by their side when larger and more difficult problems arise. **ABB Robotics, us.abb.com.**



Extended reach collaborative robots

The UR8 Long is a collaborative robot designed for extended reach and coordinated multi-axis motion. It features a 68.9-inch reach and a slim build with a 17.6-pound payload, making it ideal for space-constrained setups and industrial tasks. It runs with both PolyScope 5 and PolyScope X software systems and can be extended with MotionPlus, which allows for ease of integration with linear axis, rotary positioners and rotary turntables for precise control, smoother trajectories and consistent accuracy. With its long reach, advanced motion control and stellar precision and repeatability, the cobot is ideal for welding. **Universal Robots, universal-robots.com.**

Affordable palletizing cobot

The Fairino FR20 features a robust 20-kg payload capacity and 1,854-mm reach with six degrees of freedom, helping it excel in industrial palletizing applications with intelligent control systems. Its versatile configuration easily adapts to different palletizing patterns, while its intuitive programming reduces setup time. The extended reach covers large workspaces for efficient operations, and the intelligent control system ensures consistent stacking even in demanding industrial environments. Overall, it can seamlessly integrate into its low-cost automation ecosystems.

igus, igus.com.



Enhanced battery technology for AMRs

New battery technology for AMRs will enable improved performance and durability for automated warehouse systems. It has six times more energy capacity and is 40% lighter, compared to the currently used ultracapacitors, significantly reducing the overall weight of the power supply and enhances the reliability of the system by increasing the bots' window of operability. The technology also delivers an unparalleled cycle life at least 10 times higher than standard lithium-ion. With more reliable energy, robots can be deployed more times and for longer at any given time.

Symbotic, symbotic.com.

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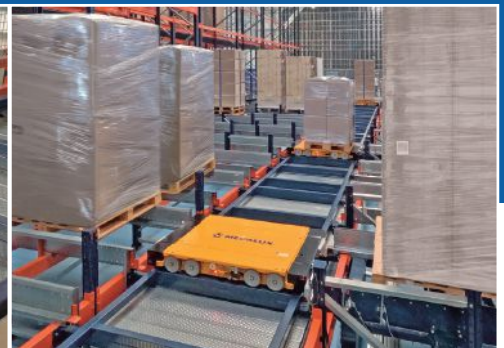
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