

MATERIAL HANDLING PRODUCT NEWS®

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SPOTLIGHT ON LIFTING & POSITIONING EQUIPMENT

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IN SYSTEMS,
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AND PRODUCTS**

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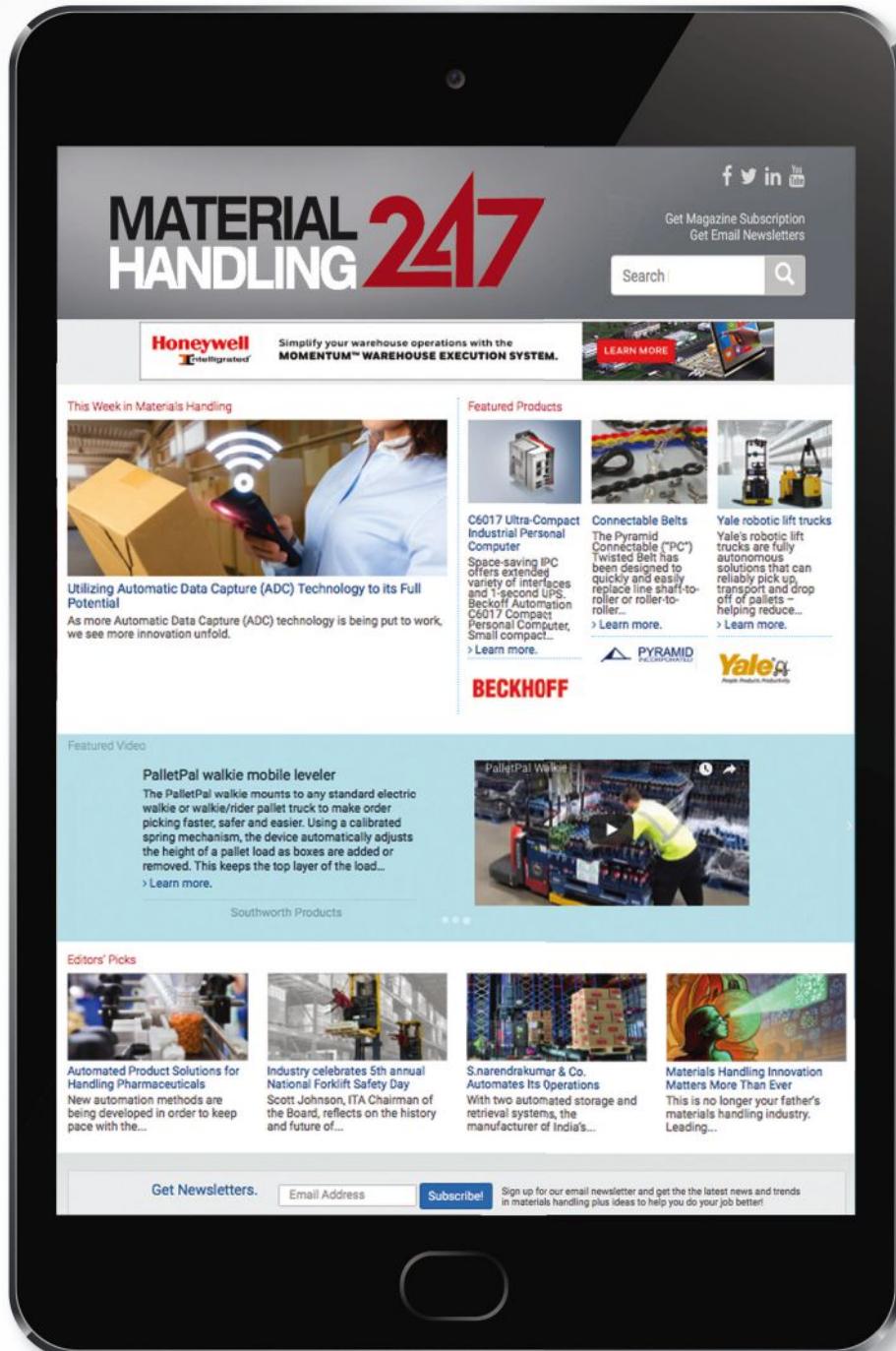
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Platform allows users to evaluate energy options

Incorporating a collection of energy solutions, a new platform enables users to meet the complex demands of the materials handling industry from energy management requirements, to the environmental landscape, to evolving equipment now and in the future. Known as Energy Solutions, the platform provides users a variety of offerings: battery and alternative energy sources, chargers and accessories, environmental support, on-site consultation, and service and repair, among others. Through these offerings, users can increase productivity and improve operations. And, forklift dealers can now conduct energy studies, which highlight and identify efficiencies that will enhance their overall operational throughput.

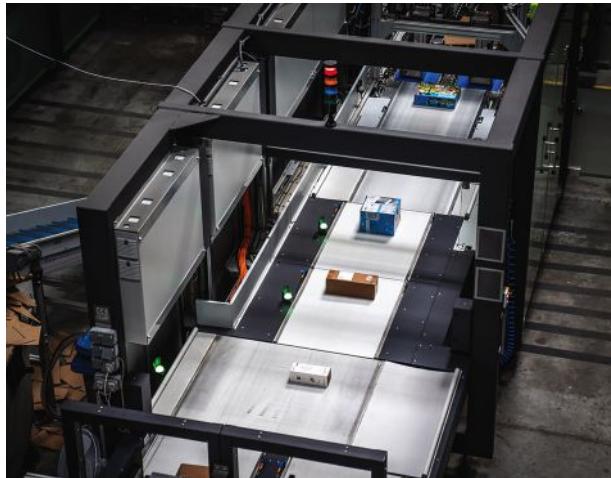
Toyota Material Handling, toyotaforklift.com.

Cloud-enabled solution captures RFID data autonomously

Due to TagSurveyor's new, unique capabilities, users can now acquire complete visibility of the assets within their DCs, fulfillment centers and warehouses by visualizing their inventory data on facility maps. The Cloud-enabled, robotic RFID solution allows users to not only capture RFID data autonomously, but also continuously. As a result,



you can notice differences in inventory levels and asset movement and then easily evaluate any additions, changes or removals since their last surveys occurred. In turn, inventory planning can be enhanced, as users have more accurate and recent data. **Fetch Robotics, fetchrobotics.com.**

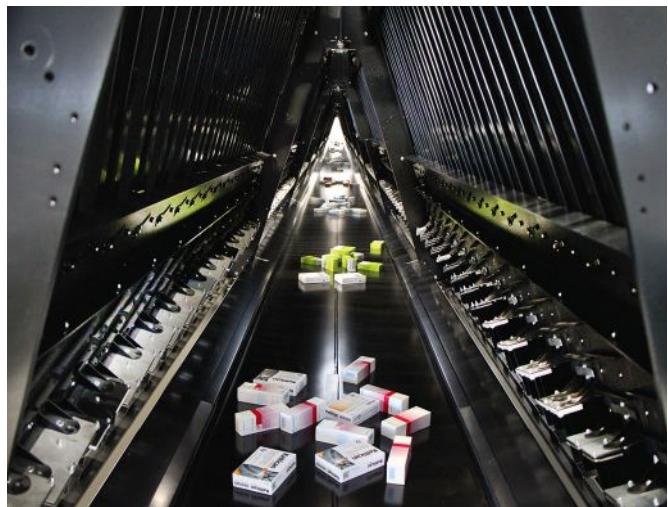


Automated packaging technology auto-boxes 1,100 packages every hour

A high-velocity, automated packaging technology, CVP Everest constructs, labels, measures, seals and weighs every single- or multi-item order with hard or soft goods all in one seamless process. To do so, it uses a patented gluing system, which affixes a custom-fit lid to every package. In addition, it provides single or dual induct stations (using either one or two operators) to generate high-volume speeds. At the same time, it also enhances operational efficiency, resulting in the removal of up to 20 packaging stations. And, due to its seamless process, the technology can also auto-box 1,100 custom-fit packages on an hourly basis. **Packaging by Quadient, us.packagingbyquadient.com.**

Stacker is customized to individual applications

Built and engineered in the United States, the PDX50 custom stacker offers users high torque drive/lift motors, a chassis comprised entirely of steel and a high strength, I-beam mast channel. In addition, it provides full, free lift construction, along with power steering. Featuring 48V Li-ion power—with more than 5,000-pound capacity and 10 gpm output for high performance attachments—the heavy-duty stacker also has extended load center ratings, which are available for applications like furnace loading or specialized coil, die and roll handling. Customized to individual applications, from one truck to entire fleets, the PDX50 is ideal for high-capacity applications with unique requirements that aren't met by standard production line units. **Big Joe Forklifts, bigjoeforklifts.com.**



Automatic solution enhances material flow

A fully automatic solution for item picking, particularly for the timely processing of intricate orders, the A-Frame ensures users not only have the highest productivity possible, but also have optimum material flow even during peak loads. Offering optimal performance with high-volume orders that comprise fast moving, small items that have similar packaging—from cosmetics and pharmacy boxes, to small office supplies and tobacco—the A-Frame also provides a high level of flexibility. The product channels are adjustable, thereby guaranteeing that two columns of packages can fit in one dispenser. Aside from this adjustability, the A-Frame also has a sensor that calculates the number of articles in columns and monitors items' stock statuses so refilling errors are minimized.

Inther Group, inthergroup.com.



ADVANCE LIFTS[®]

PRODUCTION SOLUTIONS



Containers and totes are lighter, robust

Industrial containers in the Ultra Lite products line are not only light, but robust. Featuring a fiberglass reinforced composite, the Ultra Lite containers and totes are 40% lighter than typical fiberglass products. Yet, they're also stronger and more durable than usual thermoplastic products, as their fiberglass reinforced composite is very sturdy, reliable and long lasting. Not only do the products withstand an array of temperatures (from -60°F to 250°F), but they're also resistant to various materials—for example, alkaline solutions, cutting oils and mild acids. Therefore, they've been able to offset the ever-rising shipping costs that customers continue to encounter.

Molded Fiber Glass Tray Co.,
mfgtray.com.



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Lifting and positioning equipment

Level loader holds various pallet sizes

With its 44-inch x 48-inch platform, which can drop to floor height, the PalletPal Roll-On Level Loader enables pallets to either be placed on it or removed from it, using a hand pallet truck. Offering a capacity of 2,500 pounds, the level loader can hold an array of pallet sizes. Its platform can be raised (through hydraulic power) to more than 30 inches during loading operations.



Whenever goods are loaded onto pallets, the level loader's platform drops so every successive layer of goods is loaded at the same height. Whenever pallets are unloaded, the level loader's platform begins at the lowest height possible and then rises gradually, ensuring successive layers of goods are also removed at the same height. **Southworth Products**, southworthproducts.com.

Video camera offers bird's-eye views of drum dispensing

Due to a new video camera option for the Grip+Go, a power-grip, fork-mount drum handler, fork truck operators can now have a bird's-eye view of drum position and dispensing. Consequently, they'll have faster and more accurate lifts, moves and pours from drums—without ever having to leave the truck controls. Since the video camera attaches to the drum handler with magnets and is aimed with flexible legs, operators can choose and modify nearly any camera location and viewing angle in a timely manner. It is available for two types of installations: factory or as a kit for user installation, offering users flexibility as they prepare to improve their lifts, moves and pours.

Morse Manufacturing, morsedrum.com.



Compact pallet lifter eliminates reach-over

Offering the industry's smallest footprint, the compact Lift Pilot provides an alternative to "C" lifts, "E" lifts, pan lifts and other types of roll-on lifts. Designed to be mounted to warehouse and DC floors, the pallet lifter is not only accessible to pallet trucks—it also offers completely unhindered access without having to worry about bumps, obstructions or ramps. Handling GMA pallets from the ends, as well as



CHEP pallets from the ends and the sides, the space-saving pallet lifter (which lifts pallets that weigh upward of 2,500 pounds) enables operators to have full access to pallet sides and ends. As a result, pallet loading and unloading is easier than usual, as reach-over is eliminated entirely.

Bishamon Industries, bishamon.com.

New lift options for floor space access

To access additional, useable floor space (after mezzanines are installed) cost effectively, productively and safely, warehouse and DC managers can use various types of lifts, including package, non-rider scissors and rider scissors lifts. Offering standard vertical speeds of 30 fpm, package lifts are smaller, pre-assembled vertical reciprocating conveyors, which have been developed to move packages that are smaller than pallets. Non-rider scissor lifts, on the other hand, feature controls that are secured externally at every elevation, while their platforms are smaller than those on rider scissor lifts. Meanwhile, rider scissor lifts, which are controlled by operators on the platforms, enable employees to ride with materials between various levels. **Advance Lifts**, advancelifts.com.



Vertical reciprocating conveyor is easy to install and maintain

Developed explicitly to integrate vertical lifting into automated conveyor systems, the XpressLift VRC enables users to improve process efficiency, particularly through the automated, vertical transfer of materials between their conveyor levels. Manufactured to meet the ANSI/ASME - B20.1, the XpressLift VRC has a variety of components that are easy to install and maintain, from structural tube guard rails to carriage guides. The tube guard rails enable an effective operation and a long service life. The carriage guides are designed for high speed and continuous duty operation. Also featuring a dual roller chain lift design (resulting in a redundant lifting system for a safe operation), the XpressLift VRC has lifting speeds that range from 120 to 350 feet per minute.

Wildeck, wildeck.com.

Durable, high-capacity quad lift increases safety

To lift, move and rotate extreme loads, operators can now use the Quad Platform Lift. Featuring four hydraulically activated, pit-mounted Tork 1 scissor lifts (under a platform with one cable transducer for each leg set), the

Quad Platform Lift provides controllers travel feedback. In addition, the lift, which is 504



inches long and 324 inches wide, offers users a durable high-volume design, thereby improving their safety throughout usage. The lift, which has a capacity of 6,000 pounds, is reliable and user-friendly. **Autoquip**, autoquip.com.

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Wildeck, wildeck.com.

Impact-resistant lifter transporter can lift nearly 300 pounds

Featuring durable, impact-resistant aluminum, the LiftStik PLS67-285, a four-wheel lifter transporter, offers users a 285-pound lifting capacity. Primarily developed to lift and transport items within an array of environments (food processing, industrial, laboratory, office, pharmaceutical and retail), the lifter transporter also provides users enhanced maneuverability as they transfer loads. In fact, the LiftStik PLS67-285 has a narrow mast design so employees have clear views during their transports. Its adjustable-width base can either be very narrow (20 inches) or very wide (28 inches), offering users more flexibility as they transport items in tight areas or move loads that are wider and larger than usual. **Presto ECOA Lifts**, prestolifts.com.



Below-hook drum attachment lifts 55-gallon drums

A fully automatic, mechanical, below-hook drum attachment, the new BHDL-3A, can lift 55-gallon steel and plastic drums from overhead positions, particularly for placement to and from containment devices, pallets and scales, along with various other step-to-step elevations. During the lifting, lowering and transportation of the drums, they will remain in an entirely vertical position. Three radial arms conform to each drum body and engage at each drum chime's base. Due to this three-point connection, drum integrity can remain fully intact throughout the entire lifting and transportation process. Through a lock engagement system, the radial arms always stay in a locked position until loads are placed in their final resting positions. **Liftomatic Material Handling**, liftomatic.com.





4-way pallet straightener improves pallet positioning

Used to create safe, organized warehouses of idle pallets, pallet straighteners also ensure stacks are square whenever pallets are presented to robots during system automation. Offered as the PT Model more than 10 years ago, the pallet straightener line has evolved. As the PT Model,

pallet straighteners were simple devices without any moving parts, which could evenly position pallets of the same size. From there, they evolved to another offering: the 2-Way Automatic Pallet Straightener, which straightened multiple sized pallets. Now, a new solution has been developed—the 4-Way Automatic Pallet Straightener. Through this offering, operators no longer need to handle pallets twice before they're positioned in a square manner. **Cherry's Industrial Equipment**, cherrysind.com.



Pneumatic equipment provides alternative to hydraulics

A complete line of pneumatic lifting, rotating and tilting ergonomic equipment provides users an alternative to hydraulics. Offering a flexible, affordable choice, the pneumatic products are particularly useful for assembly, manufacturing and packaging applications, along with work cells. In addition to their affordability and flexibility, the products also improve operators' ergonomics and, in turn, safety and throughput. The products can be integrated into new and existing facilities and production lines.

Verti-Lift, verti-lift.com.

Drum handler has 1,100-pound capacity

Featuring the patented Gator Grip, the DM-1100 Ergonomic Drum Handler was developed primarily to lift and transport an array of drums within the industrial workplace. A foot-operated hydraulic pump, the DM-1100 lifts and

transports fiber, poly and steel drums that weigh more than 1,100 pounds. The Gator Grip spring-loaded jaws, meanwhile, can hold any 3/16-inch or higher drum rim, while also handling a majority of 30-, 55- or 85-gallon drums. Weighing 365.5 pounds, the DM-1100 is 48 inches high and has a lift height of 20 inches, along with a rise/stroke of one inch. If its legs are extended, the DM-1100 has a 1,100-pound capacity (37-inch length; 41-inch width); however, if its legs are retracted, it has a 650-pound capacity (34.5-inch length; 36-inch width).

Motion Industries, motionindustries.com.



Vacuum lifter grips boxes from two sides

To reduce the risks of injuries that are often associated with regularly lifting heavy objects, managers can use the SmartLifter, a "smart" vacuum lifter that grips boxes from two sides. In doing so, employees' safety increases two-fold, as they only need to apply fingertip pressure while moving cartons. In addition to improving safety, the SmartLifter also enhances productivity—boxes that previously required two people for transport only need one employee. And, due to their portability, the vacuum lifter can also be easily moved with fork trucks or pallet jacks if floor layouts change. If they prefer, the SmartLifter can even be underhung from monorails, resulting in more options for usage. **Schmalz**, schmalz.us.



Vertical drum gripper/rotator enhances maneuvering

Due to its walk behind design (with a maximum unloaded speed of approximately 3 mph), along with its single handle control, a fully powered vertical drum gripper/rotator helps facilitate maneuvering into preferred positions.

Especially ideal for the distribution and manufacturing industries, the vertical drum gripper/rotator can be used in narrow areas, as its length is shorter than normal. Despite its short length, the gripper/rotator has an 800-pound capacity, enabling users to transport more items in less trips. And, through its long-term battery charge (with two 12V lead acid batteries and an integral battery charger), the gripper/rotator can also be used continuously throughout the day without any unnecessary downtime. **Vestil**, vestil.com.

Robust vacuum tube lifting technology

Two distinct vacuum tube lifting technology offerings are available: the S-Line and the Uni-Lite inline and Flex series. Featuring a durable, high-quality stainless-steel design, the S-Line can handle an array of products weighing more than 800 pounds, from boxes and drums, to kegs and sacks. And, due to their design, the S-Line can operate long-term in even highly demanding applications. Likewise, the Uni-Lite inline and Flex series is also durable, as it can be used for quick lifting and high stacking of products weighing up to roughly 110 pounds—all with one hand, offering users the option to also use scanning devices or tablets at the same time. **Palamatic**, palamatic.com.



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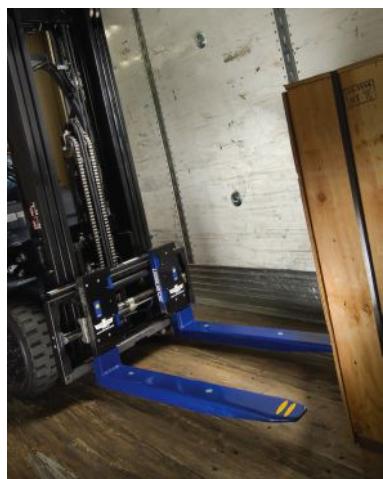
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Mobile weighing solution increases warehouse efficiency

Using Bluetooth 2.0, Bluetooth 4.0, Ethernet, RS232, USB, Wi-Fi and other expanded options, the C-Series Weigh Forks can be effortlessly assimilated into warehouse management systems. Through this integration, the mobile weighing solution not only weighs loads during transfer, but is also able to gather data through wireless Bluetooth technology. As a result, Weigh Forks can help increase warehouse efficiency, as they monitor and track waste at every point in the production process and translate load weights into quantities, which specify the number of pieces that are placed on pallets. Additionally, they measure loads at any time, no matter where lift trucks are located, as they have built-in scales. They can also work with nearly any type of lift truck. **Cascade Corp.**, cascorp.com.

Rotator clamp for attachment ready trucks

Offering 360-degree and 180-degree rotation, a rotator clamp has been developed for various attachment ready trucks, such as cushion tire and pneumatic tire counterbalanced models. Particularly useful for industries like automotive, chemical, food processing and recycling, the clamp provides users quick, high-torque rotation—continuously in both ways—along with a fork carriage that's welded to its rotating frame, leading to more rigidity. Available in various capacities and fork carriage widths, the rotator clamp also has ISO 2328 lower quick disconnect hooks, so the rotator can be easily installed and removed when necessary. Furthermore, its hydraulic motors have different displacements, so rotation speed can vary, depending on users' requirements. **Hyster Company**, hyster.com.



Manual attachment for slip sheets and pallet handling

Using a retractable internal rolling mechanism, RollerForks load and unload pallets and slip sheets in a timely manner. Lighter and more affordable than Push-Pulls for certain applications, RollerForks hang on standard lift truck carriages and can be integrated onto fork positioners and side-shifters. Available in five capacity ranges, they ideally handle single-stacked, floor-loaded slip-sheeted goods like bagged goods, boxes, cartons and flexible intermediate bulk containers (FIBC) (also known as super sacks). Aside from their various application offerings, compatibility and ability to quickly load and unload, the RollerForks can also be installed rapidly, as they not only have ISO ITA Class II or III mounting ratings, but they also don't require any hydraulic connections. **Cascade-KOOL**, cascadekool.com.



Attachment can handle four drums at once

Suitable for virtually any drum handling scenario—from full truck loading/unloading, to order picking, to pallet change-outs (from wood pallets to plastic or vice-versa)—the forklift-mounted L4F attachment can handle one, two, three or four rimmed steel, plastic or fiber drums with a total load capacity of 8,000 pounds. And, as long as drums' heights are within an inch of each other, the attachment is able to handle a mixed group of drums (fiber, plastic or steel) all at once. Aside from this flexibility, the L4F attachment also has spark-resistant "EE" rated components, along with optional coatings that can be used in food grade and pharmaceutical operations. Various attachment models, such as carriage-mount, crane and stationary, are also available.

Liftomatic Material Handling, liftomatic.com

Customized forklift attachment rated for 19,000 pounds

Originally, the Fork Rhino forklift attachment was developed to increase forklifts' adaptability. It provided users an alternative to using less maneuverable methods of placing and moving trailers (like pickup trucks), while also enabling them to overcome issues typically related to moving awkward, heavy trailers. To further enhance this adaptability, various customized options are available, including the Super Heavy Duty Fork Rhino, which is 40 inches long, 24 inches wide and has been rated for 19,000 pounds. Developed with 5/8-inch carbon plate steel, the Super Heavy Duty Fork Rhino has four 2.5-inch Reese receiver hitches that accept several combinations of tube and solid bar inserts, which can lift, pull and push large vehicles in disabled capacities.

Automation Devices, autodev.com.



Reinforced upright accommodates paper roll clamps

Typically, aftermarket attachments don't need specific lift truck design considerations, as they may be installed on standard lift truck configuration. But, from time to time, some attachments—such as paper roll clamps—need special consideration. As paper rolls become larger, clamps must increase in size to accommodate them, resulting in further stress to the upright. In response, a reinforced upright has been developed to handle these augmented forces. By enabling users to use the larger attachment that handles larger rolls, the reinforced upright enhances operational efficiency and increases lift truck uptime.

Clark Material Handling USA, clarkmhc.com.

Hopper maximizes users' productivity

Comprised of steel, the flat open-side hopper was developed for long-term usage—in even the harshest of environments. Used in a variety of facilities, from maintenance to manufacturing, the hopper enables users to load and unload goods from three sides, primarily due to its open sided design. Aside from its unique design, the hopper also offers another distinction: it is easily attachable to forklifts, particularly by using fork pockets. And, once it's in position, the flat open-side hopper can be tilted to unload by simply pulling the cable. As a result of this simplification, users can eliminate their manual unloading labor and maximize productivity. **Vestil**, vestil.com.



Attachment ready lift trucks feature modified front ends

To enable paper roll and bale clamp attachments to effortlessly fit on a range of cushion tire and pneumatic tire lift truck models, attachment ready trucks have been developed with a modified front end. This truck-to-clamp interface decreases installation discrepancies and simplifies installation on a whole. And, by ensuring proper hydraulic hose sizing, routing and fittings, it can also enhance attachment performance. Designed particularly for usage in heavy-duty applications, including paper and recycling, the paper roll and bale clamps also have an array of arm lengths and configurations, which can fit various unique operational requirements. **Yale Materials Handling Corp.**, yale.com.



Lifting product decreases unloading time by more than 50%

A custom lifting product, known as the master coil lifter, has recently replaced an unloading method at a stamping plant, which previously required three employees, including one that was positioned on a rail car truck. By attaching to a forklift truck, to unload steel coils from rail cars, the 24,000-pound capacity product has decreased unloading time (for a single car) by more than 50%—from 60 to 20 minutes. Aside from reducing unloading time, the product has also completely eliminated the need for a rigger to be positioned underneath the forks.

The Caldwell Group, caldwellinc.com.

RFID impact indicator traces damage throughout supply chains

By combining impact-damage monitoring with RFID technology, the ShockWatch RFID impact indicator can trace any signs of potential damage within a supply chain and then identify any inventory that may be affected. This impact-damage monitoring is especially crucial for industries like automotive, where inventory damage is more likely. Through the seamless automation of asset identification, the ShockWatch RFID impact indicator not only helps companies reduce the sources of damage within their supply chains—it also decreases their inventory management costs. Highly affordable and consumable, the ShockWatch RFID impact indicator offers users a visual warning (as it turns red) and an electronic gauge (when scanned with a reader) whenever damage is traced. **SpotSee, spotsee.io.**



Sales agreement leads to expanded particle foam packaging opportunities

Due to a sales agreement with a fully integrated foam products provider, a reusable packaging systems company will now pursue returnable, molded particle foam packaging (including expanded particle foam packaging) opportunities. It will offer design, distribution and manufacturing support to large industrial manufacturing companies, especially in the automotive sector. Cost-effective for reusable packaging, expanded particle foam—considered a semi-rigid, closed cell foam—is lightweight and non-abrasive. As beads molded within an aluminum tool and then fused through steam, virtually any shape of the foam can be created. And, of equal importance, the highly robust foam absorbs energy upon impact, so that shock from transportation is prevented, which is particularly ideal for sensitive components.

SSI Schaefer Systems International, ssitote.com.



AGV's cart features drawbridge style shelves

As a programmable, state-of-the-art control system, the BST NSI AGV can control 50 courses—with upward of 128 commands on each one. Operating on 24-volt power, the system can run a full shift prior to needing to be recharged.

In addition, all programs can be entered in a variety of ways, from Ethernet cable and HMI, to radio and USB memory. It also has a cart (towed by the NSI AGV) that features tilt-up drawbridge style shelves, which enable enhanced access, as four of its five levels tilt out of the way. This access is especially useful for sequential operations that must empty one shelf before it's tilted up (and out of the way) so another shelf can be accessed below it.

Creform, creform.com.





Heavy-duty push trolley can lift 1,000 pounds

Suitable for 3 inch-, 4 inch- and 6 inch-tall I-beam trolley systems, the 1,000-pound capacity, industrial grade 10705 push trolley can adjust to fit standard I-beam tracks, along with a variety of flange widths (from 2.330 inches to 3.330 inches). Comprised of industrial grade cast iron, the trolley can also be used in various capacities, from small garage applications to large industrial settings. Featuring side guide rollers, which inhibit redundant wear on tracks, the trolley also rolls smoothly and negotiates curves effectively. And, through its built-in safety lug and bumper guards, the trolley not only improves users' safety, but also extends its lifespan. **Ultimation**, ultimationinc.com.

Three printers boost companies' productivity

To improve operations, the CT4-LX smart desktop label printer's smart capabilities, particularly its color touch LCD panel, can support an array of existing applications. Meanwhile, due to its seamless functionality, users can master printing within a variety of sectors, regardless of skill level. If users encounter any errors, they can receive instant support and solutions, with instructions and video.

Operators can use the CL4NX Plus, a 4-inch industrial printer designed for the demanding printing requirements of industries like automotive as its print speed is 16% faster than other high-resolution industrial printers. Additionally, the PV3, a 3-inch mobile printer, enhances accuracy and efficiency—through its point-of-activity printing—for in-store or warehouse applications. **SATO**, satoworldwide.com.



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Automation improves inventory management and customer service

Consolidation of three warehouses into a single high-density, high-throughput facility increases visibility, efficiency and room for growth.

Stemilt Growers is a family owned and operated business that grows and distributes a variety of fresh fruits, including apples, pears, cherries, peaches and nectarines. When a natural disaster struck one of its three warehouses, the company decided to consolidate inventory into one automated distribution center.

The company was distributing through three warehouses, which was inefficient and required extra product moves to allow transport companies to pick up loads at one location. Spreading inventory over three warehouses also complicated inventory management and limited the company's ability to deploy automation.

While the potential benefits of consolidating inventory were significant, the company had rigorous requirements for an automation system. Pallets of fresh fruits can weigh up to 2,000 pounds, and different varieties need to be stored at different temperatures. Even with multiple zones, some particularly temperature-sensitive varieties would need to be stored in special rooms outside the automation system. It was therefore essential that the system integrate with Stemilt's enterprise resource planning (ERP) system to provide complete inventory visibility.

"We move a lot of fruit in and out of the warehouse on any given day, and knowing where everything is at all times helps us manage freshness and increase productivity," says Ubaldo Guizar, inventory manager at Stemilt. "We needed to make sure we could quickly locate product no matter where it was stored."

The new automated storage and retrieval system (Swisslog) is a high-density shuttle system for pallet ware-

housing. Robotic storage and retrieval devices, along with lifts working independently across multiple vertical layers, can store 60% more pallets in the same space.

The modular system for Stemilt is sized to hold more than 13,000 pallets across five levels with 25 row carriers and 25 aisle carriers. The system is supporting throughputs of 282 pallets an hour inbound and 207 pallets an hour outbound. Three quality control stations were designed into the system to eliminate the need for drivers to manually deliver pallets to quality inspectors.

"We used to have forklift drivers continually bringing pallets of fruit to quality control," Guizar says. "Now inspectors can just push a button and the pallets are delivered to them automatically. Each station can now inspect up to 40 pallets an hour."

Finally, the company wanted to automate the movement of fruit from an adjacent packing facility into the new distribution center for palletizing and storage.

"We needed to think about product movement holistically, and that meant finding a way to link the two facilities," says Gordy Schulze, distribution manager at Stemilt. "Otherwise, we knew we wouldn't realize the full benefits of automation."

Overall, Stemilt reduced warehouse labor costs by 41%, and truck load times have been cut by two thirds.

"Anything you want to know you can easily pull out of the system," added Schulze. "We can track every single pallet. In the past, we were sometimes here late into the night getting orders out. Now, we are able to maintain standard hours while still meeting the needs of our shippers and customers."



Modern Materials Handling delivers an insider's look at what some of the world's most innovative companies are doing to improve productivity, quality and throughput in their plants and distribution centers. From lift truck and conveying equipment to the latest technology trends in RFID and WMS, **Modern Materials Handling** keeps managers and engineers informed like no other business resource.

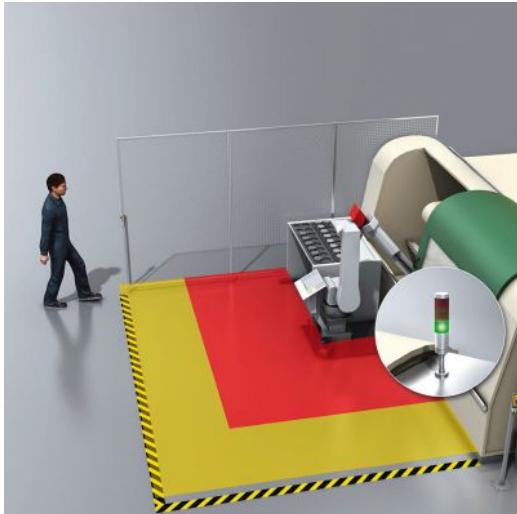


MODERN MATERIALS HANDLING

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Safety system provides unlimited access to robots working areas

Offering process-based protection for collaborative robot applications, the Safe Robotics Area Protection (SRAP) safety system provides safe, unrestricted access to robots' working areas at all times. To do so, it adapts operating conditions to users' positions—adaptive perception proficiencies that thwart accident risk. The SRAP safety system also decreases downtime and enhances users' workflow's ergonomic and process aspects. Featuring a Flexi Soft safety controller and a safety laser scanner (the microScan3 Core for larger monitoring fields or the S300 Mini Remote for shorter scanning ranges), the SRAP also fulfills Performance Level PL d criteria, in accordance with EN ISO 13849-1. **SICK**, sickusa.com.

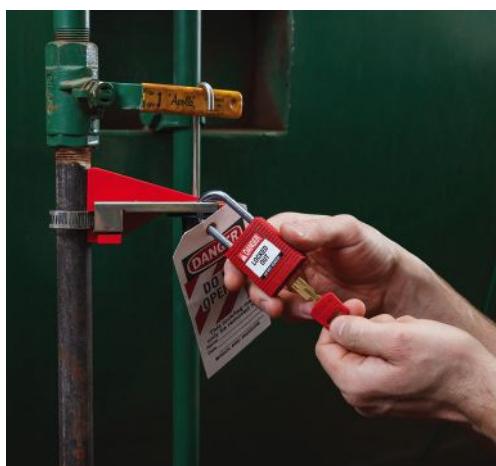


Collision warning system features various upgrades

By decreasing or potentially even removing blind corner collisions that may occur when forklift and pedestrian traffic intersect, the Corner Pro is able to produce a safer work environment in industrial settings. A new model in an evolutionary lineup of collision warning systems, the Corner Pro offers users a variety of upgrades, including a new shape and a compact design that enhances sensors' and warning lights' angles, along with a clam shell body that increases environmental resistance. In addition, the system's redesigned infrared detectors improve IR sensitivity and increase consistency, along with the detection zone range. Entirely self-powered, the Corner Pro operates on three D-Cell batteries, as it has a battery life of at least 12 months. **Sentry Protection Products**, sentrypro.com.

Padlocks reduce unwanted key duplication

In the past, traditional padlocks led to undesirable key duplication from time to time, as two different employees' keys could open a single worker's personal safety lock. A new line of SafeKey Lockout Padlocks has diminished this safety concern. The patent-pending padlocks have upward of 100,000 precision-cut operating keys—700% more than traditional locks. As a result of all these options, users can virtually eliminate any concern of unwanted key duplication, which is especially crucial for facilities that must issue multiple padlocks to employees for lockout. **Brady**, bradycorp.com.



Passive power supply system increases ROI

In addition to offering users a lumen range of up to 27,000, the SafeSite 347V and 480V Passive Power Supply now has CID1 Certification. This certification, along with its minimal usage of semiconductors and its ability to resist power quality issues, ensures the custom-designed passive power supply system can deliver dependable, extensive lighting solutions in 480V applications. As a result of the system's durability and performance, it can enhance workplace safety, diminish lighting maintenance and, in turn, increase ROI and total cost of ownership, regardless of conditions. Additionally, it produces very low electro-magnetic interference on a long-term basis. **Dialight**, dialight.com.



Safety strips disperse heat and offer employees extra protection

Developed to replace standard, plastic wear strips, optional, heat-resistant safety strips are available for conveyors in the Pharmafill line. By dissipating heat, preventing bacterial growth and resisting wear on a long-term basis, the safety strips reduce potential heat-related risks

to conveyors and products, especially when operations are operating in extremely high temperatures. Particularly useful with heat tunnels that use steam, radiant infrared or other heat sources, the safety strips should be placed underneath acetal, raised tabletop chain belts. Spanning the length of heat tunnels in either single or dual tracks, the safety strips are



primarily used whenever conveyor operators conduct tamper-evident banding and sleeve labeling. **Deitz Co.**, deitzco.com.

7.5-ton and 10-ton capacity trolley hoists have H4 duty rating

In addition to the 3 Ton and 5 Ton RY series hoists that were released last spring, users now have two more options to choose from in the RY Electric Wire Rope hoist line: 7.5 Ton and 10 Ton capacities. Developed with performance and safety in mind, the ultra-low headroom trolley hoists offer users an H4 duty rating for high demand applications. Additionally, standard configurations are certified and listed to UL 1340 "Standard for Hoists" and CSA 22.2 No. 33. Providing dual-speed variable frequency drive control on the hoist and trolley, resulting in optimal speed adjustability, the trolley hoists also have high-performance Magnetic Disc brakes. **Harrington Hoists**, harringtonhoists.com.



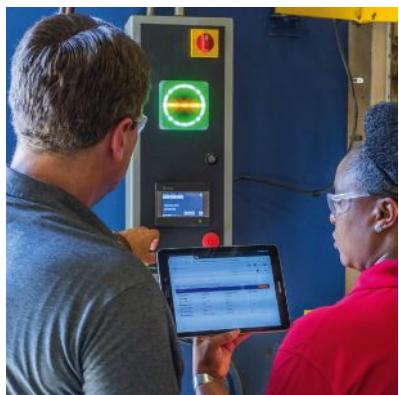
Safety glasses offer comfort and style

Premium Safety Glasses offer workers options so they're not only protected during their demanding activities, but can also showcase their individuality away from work. Designed so users don't feel like they're simply wearing eye protection, Safety Glasses provide colorful frames, fashionable designs, various lens options and all-day comfort. As a result, they fit workers' active lifestyles.

Kimberly-Clark Professional, kcprofessional.com.

Paperless software system replaces spreadsheets and radios

In the past, traditional logistics operations coordination methods, such as spreadsheets, two-way radios and yard checks on foot, offered limited and dated information, which increased the complexity of communication. To reduce this complexity, receive more up-to-date information and, in turn, improve productivity, facilities can now use a paperless software system. Known as Dok-Vu, the system enables users to coordinate their tasks and communicate in real time, as they no longer need to rely on older logistics operations coordination methods like radios and spreadsheets. Featuring a loading dock dashboard, the Dok-Vu also allows managers to review current trends and historical data, so that they can identify potential improvements and make more data-driven decisions than they previously had. **Rite-Hite**, ritehite.com.



Operations decrease downtime with data-driven dock system

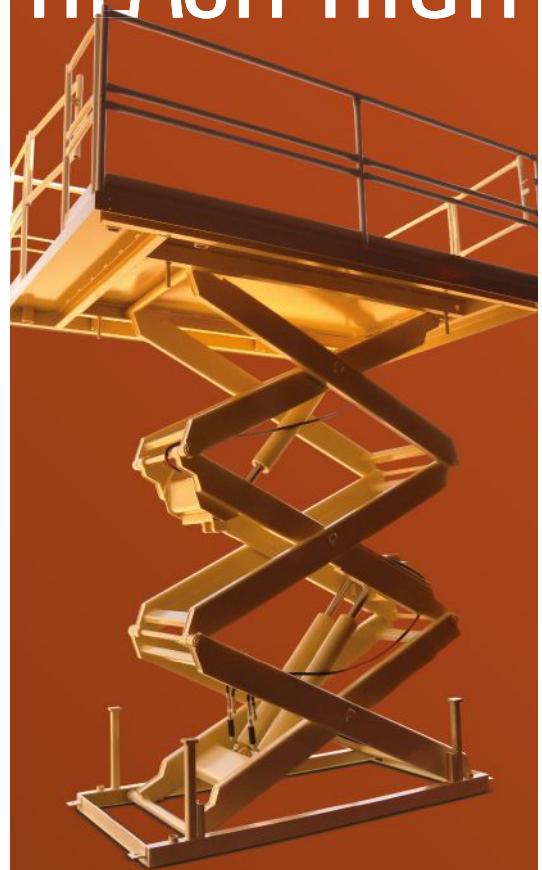
By interconnecting their equipment with the Cloud-based, data-driven Connect Digital Dock, warehouse and DC dock operations can acquire real-time access to an array of dock data and KPIs. As a result, operations of virtually any size and specialty—from cold storage, food and beverage, industrial and retail—will have full control over their entire processes, as they monitor their physical procedures and, in turn, make decisions based on data. Due to their data-based decisions, operations will be able to manage their operational costs and minimize downtime, waste and redundant work by detecting delays in turnaround time. A self-enclosed program, the Connect Digital Dock doesn't interact with existing networks and IT infrastructures, nor does it require any IT team assistance. **4SIGHT Logistics Solution**, 4sightsolution.com.

Conveying system enhances loading and unloading processes

Through the Freight Runner dock-to-trailer conveying system, users are able to decrease loading and unloading times by upward of 80%. The system automates the entire loading and unloading process. Aside from reducing loading and unloading times at docks to less than 5 minutes (depending on the application that's used), the system also improves employee safety, especially in dock areas. Employees don't have to be in loading zones, leading to a lower fall risk (from dock edges), along with the virtual elimination of injury risk (from falling off of dock plates). In addition to enhancing employee safety, the system also decreases equipment and labor costs, as less employees will now be required for loading and unloading procedures. **Keith Manufacturing**, keithfreightrunner.com.



REACH HIGH



Portable, wireless restraint system secures trailers and communicates status

VERSACHOCK wheel chock wireless trailer restraint system provides a simple, cost-effective means of securing trailers to ensure a safe and productive dock operation. It features a wireless engagement function detects wheels at all ranges; no chock cabling or permanent structure is installed on the drive to secure the vehicle. Other highlights include aluminum extrusion construction with a clear hard anodized finish to resist corrosion; pivoting chock sensor arm with reduced storage profile that provides engagement detection; heavy-duty wheel trigger; 0.25-inch heavy-duty galvanized steel cradle for secure storage; stainless steel sawtooth anchor that prevents chock movement under wheel engagement; industrial sensor unit with extended range retroreflective all-weather beam; and a high-intensity, all-weather white LED wheel engagement light that communicates device status to the operator.

Kelley, kelleydocksolutions.com.



Loading dock storage racks offer a solution for empty pallets

Over Dock storage racks store empty pallets in racks above loading docks. Two rack systems, in particular—the SK2000 and the SK3000—have been developed to fit around nearly any loading dock door. Along with these systems, dock managers can use two over-dock racking products, which enable them to reduce the odds of lift-truck impact: ceiling supported storage racks and single-leg storage racks. The ceiling supported storage racks don't have any floor level legs, which can restrict forklift traffic, while the single-leg storage racks' unique designs feature upright frames, along with single upright columns that clear users' door heights. **Steel King Industries**, steelking.com.

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Durable dock gates provide users easy accessibility

Offering an efficient barrier for employees and equipment that work near open dock doors, EdgeGard Dock Gates are easy to install, operate and access, as their design has a cantilever action. When the gates are raised, they completely clear the opening, leading to unobstructed traffic flow, along with maximum approachability. Once they're closed, the gates remain securely in place as they never move. Featuring a robust design, the gates are available in two options: straight-rail or folding-rail; the folding-rail option protects wider openings, while also decreasing required clearance heights. As long as they're anchored properly, the gates can meet the 200-pound OSHA 1910.23 load force protection requirement. **Wildeck, wildeck.com.**



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Online software for loading dock analytics

Through iDock Connect, warehouse and DC managers can use online software for loading dock analytics. Upon installing the software, users can log into an online account from any device that has Internet connectivity. Afterwards, they can view visual reports that feature information regarding dock activity, along with loading and unloading efficiencies. In addition, the software can send users e-mail and text notifications concerning loading dock events like after-hours activities, maintenance that's overdue, and truck arrivals and departures. **Systems, loadingdocksystems.com.**

Barrier gate features personnel barrier and magnetic lock

An upgraded version of the BG Series Barrier Gate offers users two new options to improve overall safety and efficiency: an integrated personnel barrier and a magnetic lock. The optional personnel barrier was primarily developed to comply with the OSHA regulation of a 42-inch height above dock floors. The magnetic lock integrates with a majority of manufacturers' control panels to enable the BG Series Barrier Gate to be electrically sequenced into the operation of dock levelers, overhead doors and trailer restraints if properly equipped. This ensures the Barrier Gate will remain in position across the door opening until the restraint, door and leveler have all been activated as users choose. **ABC Docks, aaronbradley.com.**



New control panel is network integration ready

As a new generation of integrated dock equipment control, the Digital Master Control Panel offers a variety of features that were previously unavailable (from former dock control panels). In particular, it provides users a guided sequence of operations, along with color and shape status light. Designed to be entirely network integration ready, the Digital Master Control Panel has no dependence on language. It also offers users an override, time-at-dock timer, on-board data and diagnostics, and password access. Additionally, it features an intuitive human machine interface (HMI) screen, which can be fully tailored to operate numerous combinations of dock equipment, such as doors, levelers and restraints. **Serco, sercodockproducts.com.**

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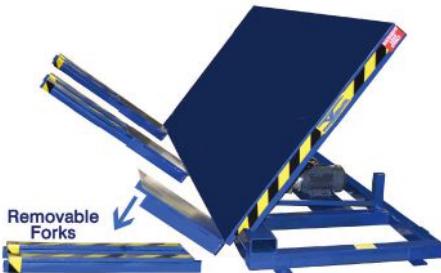
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PRODUCTS OF THE MONTH

Multi-frequency metal detector enhances food manufacturers' output

To help food manufacturers and food quality managers improve their productivity and maximize their factory floor space, a new scanning multi-frequency metal detector (known as the Sentinel 3000) combines accurate weight control with the positives of multi-scan metal detection technology. Currently the smallest model in the line of Sentinel metal detectors, the 3000 is the first multi-frequency metal detector that was designed precisely for metal detection-checkweighing combination systems in food production. Consequently, users are noticing an improvement in functionality and performance—all in a smaller footprint than they usually require. **Thermo Fisher Scientific**, thermofisher.com.



Floor level 90-degree tilt tables feature removable forks

Particularly ideal for manufacturing or assembly applications, in which work must be conducted in horizontal and vertical positions, floor level 90-degree tilt tables offer flexibility in two ways. First, they provide employees 360-degree access to products in horizontal positions, as the tables not only offer a range of 0 to 90 degrees, but their removable forks are also extremely flexible whenever they're in the horizontal position. This flexibility is also noticeable in the vertical position, as employees have access to a variety of manufacturing and assembly processes, which are in difficult to reach areas within that position as well. Due to this flexibility, the tables can be used for an array of purposes—from assembly, corrugated, wood or sheet handling, to furniture manufacturing. **Verti-Lift**, verti-lift.com.

Next-generation machine health monitoring solution increases uptime

To provide customers enhanced overall equipment effectiveness (OEE) by monitoring motion and pneumatic system parameters in real time, the SJI Viper High Speed Bulk Palletizer and Alpha Turbo TM High Speed Depalletizer are now being paired with a machine health monitoring solution. The new, next-generation system features the PACSystems CPL410 at its core, so sensor data can be analyzed and visualized on local displays, as well as with remote monitoring on tablets or smart phones. Due to this real-time monitoring of data, users will have another solution for increasing the uptime of their high-speed palletizer production. **Emerson**, emerson.com.



New motors and drivers offer a range of features

TXM StepServo IP65-rated integrated motors and SV200 digital servo drives have been released for the packaging industry. Offering closed-loop motors for wet or dusty environments, TXM StepServo IP65-rated integrated motors, which can be used for a stand-alone operation, offer users an array of features, from M12 connectors to a front shaft seal. The SV200 Digital Servo Drives provide auto-tuning and anti-vibration functions, eight regular digital inputs (5-24 VDC), four high-speed digital inputs (5-24 VDC), six digital outputs (30 VDC max) and two analog inputs (-10 to +10 V). Furthermore, users can either choose AC or DC supply voltage: 120 VAC, 220 VAC or 24 to 60 VDC. **Applied Motion Products**, applied-motion.com.

PRODUCTS OF THE MONTH



Fully automatic case former features ergonomic-to-load design

To simplify the loading process with easier case loading, the new DELTA 1 fully automatic case former with MXM (modular expandable magazine) system features a patent-pending ergonomic-to-load design that increases the machine's capacity of case blanks. Through the MXM's open design, manual case loading can now be easily adapted to automatic loading. Additionally, many of the case former's features can now be automated, as its auto-adjust technology reduces operator engagement levels, thereby also decreasing any human factors that may influence machine changeover or setup. **Wexxar Bel**, wexxar.com.



New technological advances improve packaging productivity

To help packagers manage their production, the IRB 360 FlexPicker can now be integrated with highly flexible B&R ACOPOStrak Intelligent Track Technology. In doing so, products can be routed quickly from one processing station to the next, using independently controlled shuttles. And, the third-generation of PickMaster software, used for robotic picking and packing applications, now has digital twin technology. Commissioning times can be reduced considerably—from days to hours, while changeover periods decline from hours to minutes. **ABB**, abb.com.

New products transform cold chain temperature tracking

SuperSense Smart Solutions help cold chain and cold storage industries significantly decrease food waste, one of the world's most substantial environmental and financial costs.

Encompassing SMARTprobe hardware and SMARTware software, SuperSense Smart Solutions can achieve two primary goals: eliminate the need to insert sensors/thermometers into chilled or frozen goods and calculate refrigerated goods' temperature without using any hardware. As a result, costly, time-consuming errors will no longer be a concern for cold chain and cold storage employees. **SuperCool Group**, supercool.com.au.



Cables and connectors for high-power applications

UL Listed and tested under UL 2237 (File E46873), the new M12 power cables and connectors can handle currents as high as 16A, along with voltages as high as 600V AC/63V DC. With such a high-power capacity—more than the original A-code M12 cables and connectors were able to provide—the new M12 power cables and connectors can easily drive fans, lighting and motors, even if they're located in small areas. Available in shielded and unshielded versions, the M12 Power connectors are also accessible in five different codings: T and L for DC, and S, K and M for AC. **Phoenix Contact**, phoenixcontact.com.

PRODUCTS OF THE MONTH

Protective barrier for sub-zero temperatures

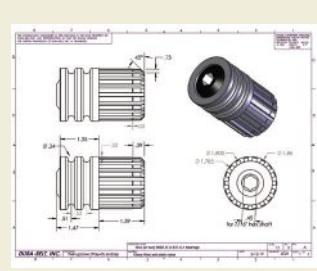
Designed to provide users high performance at temperatures as low as -22°F and as high as 32°F, the Memaplex Sub-Zero protective barrier can withstand impacts without being broken. Developed from a wide-ranging blend of polymers, the barrier is food-safe, self-colored and wipes clean, resulting in easy maintenance and maximum sanitation that is ideal for the food storage industry. Due to its blend of eight materials along with rubber additives, the barriers can absorb impact without experiencing any damage. The 3Phase Coupling System reduces impact forces, so that the costs and downtime associated with repairs and maintenance will decline. **A-Safe**, asafe.us.



Endcaps for elastic round belts, conveyor roller tubes

Designed for use with elastic round belts, Poly-O Endcaps (featuring O-ring inserts) fit 1.9-inch x 16-gauge conveyor roller tubes. In addition, they can be used for round belt sizes of upwards of 0.25-inch. Also available for 50-millimeter conveyor roller tubes, the endcaps (known as Twin Groove endcaps when they're used for conveyor rollers) feature one or two ABEC-1 6002 ZZ bearings. Developed with sturdy, glass-reinforced nylon, the anti-static endcaps can also operate in an array of temperatures, from -20°F to 230°F.

Dura-Belt, dura-belt.com.



Industrial table holds up to 1,800 pounds

A multi-purpose system, an industrial table enables flexible storage of items ranging from small parts to packing materials to large cartons. It allows packing supplies to be within reach, due to its dividers, roll dispenser and shelves. Its adjustable legs offer users a flawless ergonomic fit, while its cantilever system can be customized and adjusted as users' needs change. And, the industrial table is built with durable steel, as its top holds more than 1,800 pounds. **Tennsco**, tennsco.com.

Software improves operations' flexibility and productivity

Due to the recent release of FactoryTalk Batch software, industrial producers with batch applications are now able to develop more flexible, productive and reliable operations. The software enhances design teams' productivity and assists operations through improved mobility features and system reliability. In addition, the software enables users to make online edits for plant areas that require a high amount of control and flexibility. If needs adjust or evolve, operators can make changes without having to take segments of the system offline or placing batches on hold. The software provides users options to increase throughput as operations continue to improve. **Rockwell Automation**, rockwellautomation.com.

IC forklifts feature new technology upgrades

Upgraded technology, along with new standard features, have been included in a lineup of internal combustion (IC) forklifts—the Core, the Mid and the Large IC forklifts. Due to this upgrade, the lineup will now come standard with a multi-function display that features a variety of technological applications. From advanced diagnostics and password protection, to enhanced onboard technology, such as exclusive QR code diagnostics and operations data logs, the IC forklifts have been fully upgraded with the future of materials handling in mind. To enhance efficiency and decrease the need for maintenance, the IC forklifts also features a coil-on-plug ignition system, a recently designed counterweight and improved LED combination light options. **Toyota Material Handling**, toyotaforklift.com.

PRODUCTS OF THE MONTH

Head-mounted display enhances picking accuracy and efficiency

Through the HD4000 Enterprise Head-Mounted Display, warehouse workers' hands and eyes will now be free, as they no longer need to interact with applications on mobile computers to acquire data. Now—due to contextual information being overlaid



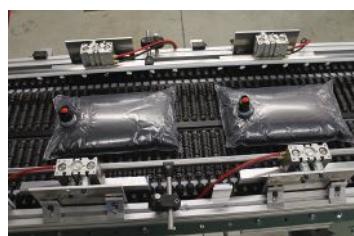
over their real-time field of view—they can focus on tasks, resulting in enhanced picking accuracy and efficiency. An enterprise-class mobile device accessory, the HD4000 offers workers a display that's easy to

see, a rugged design that will last for years and simple usability and deployment; it just needs to be plugged into a host mobile device and turned on (additional batteries and staging aren't required). Featuring a Software Development Kit (SDK) and Application Programming Interfaces (APIs), the HD4000 can also be easily integrated into new or existing applications.

Zebra Technologies, zebra.com.

One single conveyor design for package and parcel handling applications

Particularly ideal for package and parcel handling applications, the ART Dynamic Chain performs a range of behaviors within one single conveyor design. In the past, these behaviors—such as acceleration/deceleration, low pressure accumulation, metering, rotation, sequencing



and zero back line pressure—had to be performed through a variety of conveyors. But now, module manufacturers and OEMs can integrate their design and engineering expertise to develop their own

conveying system instead. Applications include packer-to-palletizer sections in beverage, food and intralogistics warehouses, along with parcel handling in e-commerce, third-party logistics and warehouses.

Rexnord, rexnord.com.

Smart watch provides hands-free navigation

Created with the Samsung Galaxy Watch in mind, the Smart-Ex Watch 01 offers employees hands-free navigation through advanced voice control or wrist gestures. Due to its integrated GPS, the watch protects users from the risks of completing tasks in industrial environments, especially in hazardous areas. Not only does the watch feature sensors that can monitor users' vital signs, it can also access their locations (due to real-time localization) and quickly provide assistance during emergencies. Able to operate in a variety of temperatures, from 5°F to 122°F, the Smart-Ex Watch 01, which has passed military specification (MIL-STD-810G) testing, also features a durable, scratch-resistant glass surface. **ecom**, ecom-ex.com.



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PRODUCTS OF THE MONTH

Propane-powered industrial forklifts provide heavy lift capacities

Three new propane-powered industrial forklift models—the MI 40G, MI 50G and MI 70G—offer users heavier lift capacities for a range of applications. The capacities range from 8,000 pounds up to 15,400 pounds. Featuring a 99 horsepower engine, the forklift models provide users first-rate performance in heavy-duty applications, particularly within factories, paper mills, manufacturing facilities and general warehousing and distribution centers. Equipped with safety features like honeycomb roofs (for additional protection and visibility) and panoramic rear-view mirrors, the forklift models offer backup alarms, front and rear headlights with blinkers and low, wide anti-slip steps. **Manitou Group**, manitou.com.



IP65-rated tablets are built to last

To help users monitor and control their manufacturing and processing operations with more flexibility, the TRT-A5380-08 and TRT-A5380-10 Rugged Tablet Series feature a variety of offerings and unique characteristics. They provide built-in bar code scanner options, along with 8-pin pogo connectors, which enable tablet mounting to forklift, vehicle or desktop docking stations. Additionally, they are military-standard-810G rated, so they're not effected by drops (of up to 4 feet) onto concrete. And, since they're IP65 rated, they can be sprayed for cleaning and even operate in humid and wet environments. They also have a wide temperature range and can tolerate shocks and vibrations, resulting in potential long-term usage. **Teguar**, tegular.com.

Software enhances vision-guided robots' and cobots' traceability

Impact 12.2 software improves vision-guided robots' and collaborative robots' ease-of-use and traceability. Considered a robot guidance and traceability software, it integrates a variety of calibration and performance enhancements, so robot programming is quicker and simpler. Aside from simplifying robot programming, the software eases the use of the cobots and robots used for various pick and place tasks, along with a variety of other types of crucial production line responsibilities. Due to the system's technology, robots will not only be easier to use—they'll also be deployed faster and will be more adjustable to ever-changing applications. **Datalogic**, datalogic.com.



Bench and floor scales are durable and easy to read

The AGB and AGF bench and floor scales are ideal for applications in warehouses and manufacturing. The scales offer users three options of easy-to-clean, grade 304 stainless steel pan sizes to choose from: 11.8 inches x 15.7 inches (for the AGB) and 15.7 inches x 19.7 inches or 23.6 inches x 31.5 inches (for the AGF). Featuring an integrated indicator that has durable stainless steel housing, the scales also provide protection from dust and water. In addition, they can be easily read, as their backlit LCD display has 1.5 inch-high digits. Power is supplied by a 12 VDC 800mA adapter, along with an internal rechargeable battery that has a battery life of roughly 90 hours per charge. **Adam Equipment**, adamequipment.com.

Pallet conveying platform features stacker crane and transfer car

The Modular Pallet Conveyor Platform, a flexible modular system for driven pallet conveying, has been expanded with the release of a new transfer car and a stacker crane for storage. Weighing 606 pounds, the transfer car ensures fast pallet conveying—upwards of roughly 16 feet per second. As a result, up to 100 pallets can be stored and retrieved on an hourly basis. The stacker crane offers high energy efficiency, due to its integrated energy recovery and lightweight construction. Offering a lifting speed of 2.6 feet per second and a horizontal travel speed of nearly 10 feet per second, the stacker crane is 39 feet tall. **The Interroll Group**, interroll.com.



PRODUCTS OF THE MONTH

Lube free air hoists

Operating entirely without air supply lubrication, the new TLC Series lube free air hoists ensure surrounding environments don't have any oil mist emitted from air exhaust. Recommended for chemical, food and pharmaceutical industries, the hoists are available in 0.25-ton, 0.50-ton and 1-ton capacities. Offered with either cord or pendant controls, the hoists provide users fast lifting (for applications in which speed is crucial), along with an unlimited duty cycle, resulting in continuous operation. Compact, the hoists also have heavy-duty disc motor brake systems, leading to dependable load support.

Harrington Hoists, harringtonhoists.com.



RFID labels perform well on ESD containers

A new RFID label, rfid-DistaFerr ESD, suits commonly used electrostatic discharge (ESD) containers. The label offers users a solution for an issue that's far too common: RFID systems' poor performance on ESD containers. To help solve this issue, the labels are weather-resistant and wash-proof, enable onsite thermal transfer printing and programming, and provide protection against potentially destructive substances. Additionally, to improve users' longer-distance readability, a LongRange version of the labels is available, providing read ranges of up to roughly 20 feet. **Schreiner ProTech**, schreiner-protech.com.

Lithium-ion-powered forklifts feature an alternative power source

The V-Force Lithium-Ion Energy Storage System (ESS) is now available for a lineup of electric forklifts.

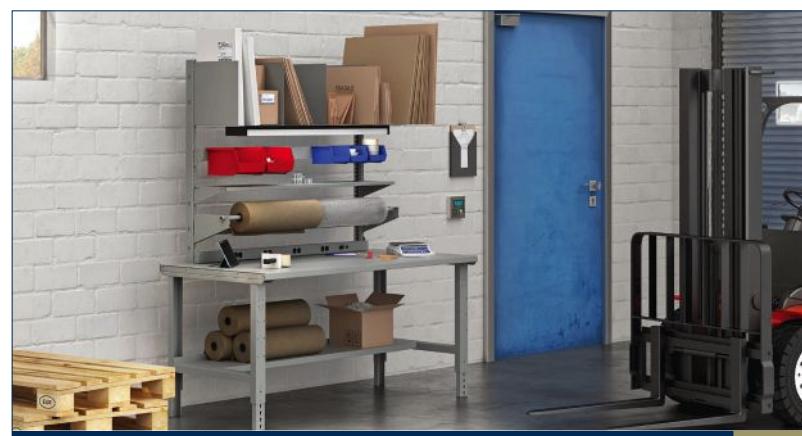


Through its full integration with forklifts, the system enables the trucks' displays to show battery discharge levels. From there, operators are alerted with an early warning system, before truck operation stops.

Aside from its lithium-ion technology, the system includes a modular V-Force charger, along with a battery management system, which extends battery life, as operation outside of warranted conditions is prevented. **Crown Equipment**, crown.com.

Mobile product reduces pedestrians' fall risk

Far too often, pedestrians don't have safe access to trucks' rear doors or container carrying vehicles in inspection and unloading areas, especially when loading docks are absent. To help reduce this risk, a mobile product features full deployable guardrails and stair access. The Alto Angel Stairs provides users gated and guard-railed access to vehicle rear doors—with braked industrial quality casters, compliant handrailed stairs and spring-loaded secure locking mechanisms. For convenient storage, the guardrails can be folded up when not in use. **Alto Access Products**, altoaccess.com.



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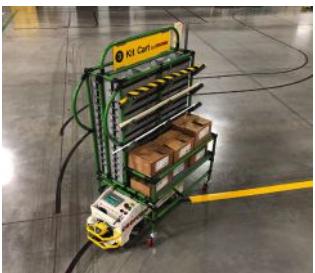
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PRODUCTS OF THE MONTH

Semi-automatic remote control unit increases order picking accuracy

Through the new easyPilot Follow semi-automatic remote control unit, orderpicker trucks can follow their operators, resulting in error-free picking processes and, in turn, a rise in picking efficiency. Connecting with wireless technology through a controller that an operator either carries or wears, the remote control unit's reliable connection ensures a lift truck will follow as an operator moves forward and stop with utmost accuracy. Operators no longer need to enter or exit their lift trucks to finish tasks, leading to a rise in order picking accuracy. And, operators are able to conserve their energy for other responsibilities. **Jungheinrich**, jungheinrich.com/en.



AGV increases manufacturing efficiency

The Tite-Space BST AGV with kitting cart, Model CA-250060-NSI-K9, operates as an automated tugger and can increase process and production efficiency. The AGV can travel along a magnetic tape guidepath, slip under a stationary cart, extend a tow pin into the cart's frame and then convey it to a specified workstation or unload point, resulting in high throughput. Featuring a programmable control system, the AGV can also control 50 courses—with more than 128 commands for each course. To offer users the opportunity to improve their efficiency, the AGV is powered by a 24-volt system, which uses two 12-volt AGM batteries. **Creform**, creform.com.

Semi-automatic strapping machine secures heavy packages

The semi-automatic EXS-100 strapping machine can strap and secure heavyweight and over-filled packages. With easy operation, the machine has an open cabinet design, so users can view and change its poly strapping effortlessly, if necessary. Featuring electronic tension control, the EXS-100's tension can be adjusted according to the packages its strapping is securing. To ensure secure strapping, the machine also has a heated strap-weld sealing system, so packages will never open during handling or transit. Pre-configured to an industry-standard height of 30 inches, the EXS-100 also provides comfortable fits for most packaging environments.

Engage Technologies, engagetechnologies.net.



New forklift scale offers users fast measurements

Featuring a unique design, the new WF Series forklift scale can convert a majority of forklifts into a precision scale in minutes. By integrating a weighbridge design with two load cells in each weigh fork, the scale uses Bluetooth technology to communicate a digital signal to its FB3200 Series instrument. The scale provides faster measurements than scales that either incorporate the weighbridge into a secondary carriage plate or use a cable between the weighbridge and the instrument. The scale is factory calibrated. **Fairbanks Scales**, fairbanks.com.

Electric cushion tire lift trucks offer comfort and greater control

A new electric cushion tire lift truck series, Cat EC15N-EC18LN, is available as a 3,000- to 4,000-pound capacity model. The series increases operators' efficiency, as it requires less maintenance and has greater uptime than other comparable lift trucks. Featuring custom operating modes, the series also provides operators more control over truck performance and ergonomic settings, resulting in more comfort. With comfort in mind, the series also offers advanced three-phase AC technology, standard full-suspension vinyl Grammer seats (which decrease shock and vibration through forward/backward adjustments, lumbar support and weight suspension) and a full hydrostatic power steering wheel that requires less effort than other steering systems.

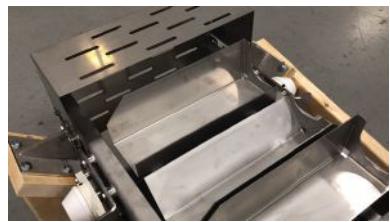
Mitsubishi Caterpillar Forklift America (MCFA), mcfa.com.



PRODUCTS OF THE MONTH

Roller chain conveyor features horizontal back-to-back buckets

A dual strand, roller chain conveyor features bucket-style attachments. The conveyor's back-to-back buckets are not only horizontal, they're also rotated 45 degrees. Developed with stainless steel, the conveyor also has a pre-tensioned linkage with attachments, which is necessary for the customized buckets. Aside from its novel design and pre-tensioned linkage, the conveyor also provides users longevity, as its stainless steel ensures a long shelf life, regardless of how often it's used on a daily basis. **Multi-Conveyor**, multi-conveyor.com.



Forklift assistance tool easily lifts and moves sheet rolled products

The Rolled Goods Manipulator (RGM), a patent-pending forklift assistance tool, can handle, lift and manipulate a variety of heavy rolled materials from carpet to commercial sheet vinyl. Regardless of weight, it can lift, move and position sheet rolled products—weighing more than 1,800 pounds from a horizontal position to a vertical position. To do so, the RGM uses a forklift attachment that was designed to easily handle heavy, rolled materials. Additionally, it uses an elongated rod that remains securely in place (through a locking mechanism) as the rolled products are transported. Available in three sizes (all under 150 pounds), the RGM can also be stored easily whenever it's not being used. **Anchor Floor & Supply**, anchorfloorandsupply.com.



Cleaning solutions improve employees' safety

Regardless of warehouses' sizes, the frequency in which facilities are cleaned (daily, weekly or somewhere in between) and the rate in which deliveries are transported throughout DCs and warehouses (leading to potentially high foot traffic), cleaning equipment is important. To ensure cleanliness on a consistent basis, facility managers can use the Clean Fleet of cleaning solutions, which includes industrial sweepers and vacuum cleaners, pressure washers and scrubber dryers. Each solution is designed with efficient, quick cleaning in mind, even if warehouses and DCs span tens of thousands of feet in size. **Nilfisk Group**, nilfisk.com.

New module improves the wire cut grouping process

Developed to electronically group, plan and prioritize wire cuts, a new Wire Cutting Management module assimilates effortlessly with Latitude WMS. As a result of the module, users are able to define which wire cuts should be mixed together (and which shouldn't), while also determining which containers are necessary. In doing so, cut operators are no longer required to manually manage the wire cut grouping process. And if electrical distributors are unable to successfully track remnants, the Wire Cutting Management module offers them a new tool that increases their existing remnants, so they don't have to acquire cuts from new spools. **PathGuide Technologies**, pathguide.com.



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PRODUCTS OF THE MONTH

High capacity dumper hydraulically raises and dumps mobile bins



A new open-chute, high-capacity dumper, the High-Lift Bin Dumper, hydraulically raises and dumps mobile bins (weighing up to 3,000 pounds) into hoppers, which then feed integral flexible screw conveyors. The bins are rolled into a three-sided pen; from there, lifting tongues (centered within casters) raise and seat the bins' rims against grates which, along with paneled side bracing, steady the bins during the dumping cycle and then direct the materials' discharge paths. Then, the system automatically lifts mobile bins at variable heights (up to 10 feet above floor level), opens receiving hoppers' gate-style lids, dumps all of the bins' contents into the hoppers and then returns the bins to the plant floor once the hopper lids close. **Flexicon**, flexicon.com.



Weigh-and-roll scale

The Drum Bunny weigh-and-roll scale is ideal for materials handling applications that require regular assessments for precise filling and inventory along with movement from one location to another. The scale enables users to place the drum or container on a weighing platform to weigh it, while also moving it to its preferred location. Its low-profile platform and three load cell design enables it to adapt to uneven floors within materials handling environments without having to be reloaded, reset or unloaded.

Pennsylvania Scale, pascale.com.

Multifunction printers are ideal for small-to-medium businesses

Five new ledger-size (A3) models—the e-Studio 2822AM, e-Studio 2822AF, e-S Studio 2823AM, e-Stuc 2329A and e-Studio 2829A—increase the e-Studio multifunction printer line. Developed to primarily address small to medium-sized businesses' document management needs, the models can deliver documents at more than 28 pages-per-minute (ppm) in 2,400 x 600 dpi resolution. In addition to their high-resolution offerings, the ledger-size models can also scan color documents in a timely manner: up to 22 ppm. At the same time, the e-Studio2823AM has a fully configured 600-sheet capacity, while the e-S Studio 2329A and e-Studio2829A can expand their capacities up to 1,700 sheets.



Toshiba America Business Solutions, tabs.toshiba.com.



Automatic rotary ring stretch wrapper enhances efficiency

Featuring a ring-type method of wrapping, along with a dual film carriage design, Octopus Twin Series automatic rotary ring stretch wrapper is able to increase productivity. Its ring design enables unlimited wrap patterns, as it can begin and end film cycles at any vertical point on loads, leading to a rise in flexibility, along with a decline in film usage (by more than 25%). And, since it has dual film carriages, the Octopus Twin Series can further decrease film roll changes by 50%, while increasing users' uptime and labor savings. **Signode**, signode.com.

End-of-line case packing system offers users precision and versatility

A new, entry-level, end-of-line case packing system, ReadyPack is not only a smaller version of the 424 T2 (D) machine, it has also been designed with a slower collating speed. The ReadyPack precisely collates, groups and cartons products in trays, along with display, folding, open and wraparound cases. With a capacity of 160 products per minute, the ReadyPack—in tray packer mode—can case more than 18 packaging units each minute; it accounts for 12 as a wraparound machine. Especially ideal for consumer goods, food and beverage, and retail manufacturers, the ReadyPack will offer versatility, as it can run a variety of items, from flow packs, to glass jars, to standup pouches. **SOMIC America**, somic.us.



PRODUCTS OF THE MONTH

New three-bay and 10-bay charger models

Three-bay and 10-bay models have been added to the Fury X-3 charger line. Prior to this announcement, only six-bay models were available. Now, the three-bay, six-bay and 10-bay models can be configured for 3-9kW, 3-18kW and 18-30kW power levels, respectively, by installing Fury 3kW power modules. New features include 72/80V dual voltage power modules, which enable chargers to grow with customer fleets. Additionally, 24-volt CEC-compliant power modules, which support the materials handling industry's expanding energy demands, are available. **Exide Technologies**, exide.com.



Ground lift and tilt tables for ground level loading and unloading

A new ground lift and tilt table, EHLTGT-4452-4-36, enables products to be loaded and unloaded at ground level—without ever having to use a ramp. Designed to lift and tilt products to an ergonomic working position, the table currently has a maximum tilt angle of 45 degrees, along with a remote power unit with a handheld control, as the lift and the tilt are controlled separately. Featuring a blue liquid paint finish, the table can be loaded and unloaded by using a standard pallet truck. Therefore, no pit mounting is required, and operators don't need to bend nearly as much as before. **Vestil**, vestil.com.

Nylon nets improve inventory containment

Effective inventory containment is critical to protecting employees, but it can also prevent product damage. Pallet Rack Guard Nets can help distribution centers and warehouses on a consistent, long-term basis and be customized to individual, unique needs. All nets are made in the United States entirely out of nylon. In addition, the nets are offered in an array of mesh sizes, as well as load ratings, so customers can comply with OSHA 1926.250 and 1926.555 requirements.

Carron Net Company, carronnet.com.



LED traffic arrows have six color combinations

Offered in a variety of models, the brand-new series of SRDTA LED traffic arrows provide users many different options. Regardless of their needs, users will likely be able to find a traffic arrow that's ideal for them, as they feature 72, 96 or 120 LEDs, along with six color combinations. Providing 50 warning patterns, as well as 27 traffic adviser patterns, the SRDTA LED traffic arrows have two separate lighting modes. The first lighting mode directs oncoming traffic with an amber flash pattern, while the second (a steady burn mode) turns the traffic arrow into a scene light that illuminates work areas. Ranging from 25 to 41 inches in size, the traffic arrows also offer users a five-year warranty. **TVH**, tvh.com.

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PRODUCTS OF THE MONTH



Sensor-to-Cloud platform for the industrial sector

A new cellular-based transmitter and 4G LTE-M platform, the Ranger, was designed for the industrial sector, as it delivers users the promise of sensor-to-Cloud. A next-generation remote monitoring solution, the Ranger uses LTE CAT M1 technology to connect industrial sensors directly to the Cloud for remote alarming, control and monitoring. It bypasses local networks and offers users a more secure connection without providing additional work to IT employees. Designed to work with an array of sensor types, it can also be easily integrated into industrial monitoring systems. **SignalFire Wireless Telemetry**, signal-fire.com.



Battery system provides 35 kWh of energy

Developed for configuration flexibility, along with complete scalability,

the commercial vehicle (CV) standard battery system currently has 35 kWh of energy, along with upwards of 10 battery packs, which can be used for 350 kWh of energy overall. Offering two versions (400V and 800V), the system can be configured quite easily, particularly through a vehicle interface box (VIB)—the master battery management system and power distribution unit. A plug-and-play system, it also decreases vehicle manufacturers' costs and development time. The CV standard battery system, which is now available in North America, consistently meets three prime requirements of commercial vehicle manufacturers: affordability, easy configuration and high energy. **The Webasto Group**, webasto.com.



Belt drive lift system for challenging environments

A new IP65 certified lift trolley system, the TAWI CR80 ensures most types of goods, particularly in industries with strict sanitary requirements (such as food processing and pharmaceutical), are easily and safely moved. As a dustproof, stainless-steel and

waterproof belt drive lift system, the TAWI CR80 has all of its electronics securely enclosed in a chassis. It is able to operate easily and safely—even in very challenging environments, while also meeting demanding sanitary requirements. In addition to its safe operations, the system is also able to effortlessly lift more than 175 pounds. **Tawi**, tawi.com.

Mobile elevating work platforms provide safety and reliability

Thirteen new models of mobile elevating work platforms (MEWPs) have work heights that range considerably, from 18.4 feet, all the way up to 46 feet. Offered in two drive configurations (electric or hydraulic), the lifts provide users reliability and safety as they work at high heights, either in indoor or outdoor applications. Aside from the range of work heights, the ANSI A92.20 compliant lifts also have large scissor arms, which offer durability and stability, platform extensions with a foot pedal control and a universal drive control box with a LED screen. **Pettibone**, gopettibone.com.



Single- and multi-use tracker supports 2G, 4G and 5G networks

The Solo 5G tracker is 5G-enabled and also supports 4G and 2G networks throughout the world. By removing coverage and data gaps in every country and U.S. state in which 2G and 3G networks are currently being replaced, the Solo 5G guarantees that all in-transit shipments will now have full, real-time visibility. The Solo 5G also measures humidity, light exposure, shock and temperature. And, while using recent cellular technology advancements, the tracker also reports sensor data, as well as location details, to a Cloud-based supply chain platform. From there, customers can then analyze and monitor benchmark carrier behavior, setup geofences and shipments. **Tive**, tive.co.



Custom carts and lift tables offer various options

A variety of new custom carts and lift tables offer customers an array of options. The carts range from four-wheel and six-wheel

carts, flat top and low profile carts, rotate and tilt carts, to custom part sequencing and fork free carts. In addition, the lift tables are available in a range of choices, from air spring and fork free lift tables (for cart access), to hydraulic lift tables and rotate tables. Single position lift tables, along with single position lift and rotate tables and single position lift and tilt tables, are also available.

**German Machine Tools of America (GMTA),
gmtamerica.com.**



Low maintenance linear rail guides

A new series of compact, precision linear rail guides are ideal for industrial and laboratory applications. With low noise, precision accuracy, long service life and low maintenance, due to their self-lubricating features, the all-stainless steel rail guides (known as the LLS Series) have factory pre-lubricated carriage mountings, along with reservoirs that provide long-term guide rail lubrication. The carriage's end-cap seals have been designed to ensure the lubricant remains within the carriage. Three carriage sizes (7, 9 and 12) are available in standard or extended lengths, while the rails are supplied in lengths of up to more than 3 feet, as longer lengths are also available to order.

Ewellix, ewellix.com.

Wireless charging models for AGVs and forklifts

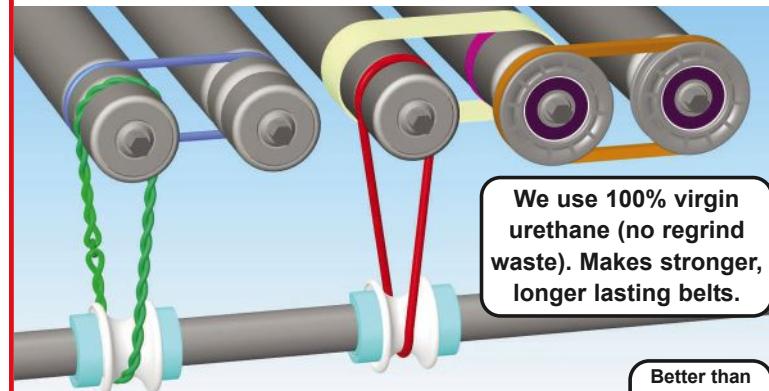
A variety of high power, wireless/contactless charging models (1kW, 30kW and 720W 24V, 36V and 48V), along

with development kits, are now available. The 1kW models, which are ideal for AGV, AMR and lift vehicle manufacturers, have programmable charging profiles for every battery chemistry, as well as CANBus communication and control. The 30kW models are useful for forklift trucks and large AGVs. By eliminating DC cables, connectors and costly contact plates, the 30kW models increase uptime, while decreasing service costs. Finally, the 720W 24V, 36V and 48V on-board chargers, which are IP65 rated and UL and CEC certified, offer the smallest footprint on the market.

Delta Electronics, deltaww.com.



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PRODUCTS OF THE MONTH



Epoxy coating increases traction on various surfaces

A new anti-slip epoxy coating, known as Walk-A-Sured, increases traction, particularly for vehicle and foot traffic, on an array of surfaces.

Featuring 100% solids (No VOCs), the epoxy system is chemical-, solvent- and water-resistant. To increase safety in nearly any type of environment, the coating is provided Heavy Duty 20 and Universal 40. The Heavy Duty 20 is mainly used in kitchens and industrial areas. However, the Universal 40 ensures that virtually any type of environment remains safe, as it presently has a multipurpose use.

Wooster Products, woosterproducts.com.

Newly designed winches have a high working load limit

Newly designed and engineered winches feature a working load limit (WLL) of 6,670 pounds. The new winches will offer users lower damage claims, along with more secure loads. Working with the Rhino Max and K-Force winch straps (which also have a 6,670-pound WLL), the winches and straps provide an integrated system that has a higher WLL than several binder and chain systems. In addition to their high WLL, the winches offer customers variety (combination, double "L" sliding, portable, sliding and weld-on styles are currently available) to ensure they have a suitable winch to use for any application. **Kinedyne**, kinedyne.com.



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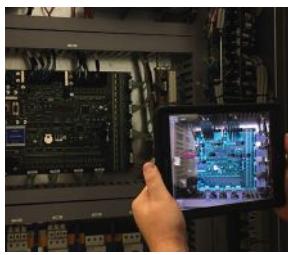
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Asset management solution features fleet management capabilities

To manage asset portfolios without needing to buy or maintain numerous asset systems, fleet managers can use the fleet management capabilities that have been added to Sprocket, an enterprise asset management solution that's a part of the iQ software suite. As a result of these capabilities, the Sprocket now has features like fuel tracking and vehicle maintenance reporting standards (VMRS). In particular, through fuel tracking, the Sprocket can assimilate with fuel card management systems so that fluid usage is considered, along with costs like inventory transactions and maintenance. Meanwhile, VMRS tracks equipment assets and maintenance repairs, with codes in work orders, so reporting is consistent across an entire fleet. **Dematic**, dematic.com.



AR program reduces downtime by 50%

Developed to enable engineers, plant managers and technicians to share issues in real time—in an efficient and timely manner—from their facilities, the Remote Assistance Augmented Reality Program is anticipated to decrease customers' downtimes by up to 50%. By allowing professionals to share these issues quickly, the program developer's technical support staff members can learn about their machine issues, assist them with troubleshooting and provide solutions. To help ease this process, the program also offers technical support staff members the opportunity to interpret solutions and draw on their devices, text on their screens and capture photos and videos they can use to help other professionals in the future. **Mitsubishi Heavy Industries America**, mitsubishigearcenter.com.

IoT-enabled platform enhancements increase efficiency and safety

Through the launch of the third-generation of EcoStruxure Power, an IoT-enabled platform that digitizes and simplifies low- and medium-voltage electrical distribution systems, users will see a variety of improvements: more efficiency, reliability and safety in power distribution. EcoStruxure Power now integrates its Power Monitoring Expert with industrial software known as Wonderware, enabling users to access important KPI data (based on energy consumption activity) to analyze and compare their energy data usage per process application, resulting in a rise in efficiency. Continuous Thermal Monitoring decreases electrical fire risk, as it signals unusual temperature rises during installations, along with the early detection of malfunctioning connections, among other safety enhancements. **Schneider Electric**, se.com.



Updated SaaS software boosts smart asset management

Designed to help users scale and manage large volumes of shippers (within various locations) more efficiently, Credo ProEnvision

Web-based, SaaS asset management tracking and tracing software has an updated version with new features. These features, including the Credo Cube temperature-controlled shipper, enhance smart asset management. It improves the software's system performance and offers users a more modern look and feel. As the migration to the updated software occurs, minimal disruptions are expected, as users will continue to have access to their data and history (all existing data will be migrated over to the new SaaS system) and the process flow of the software won't change. **Pelican BioThermal**, pelicanbiothermal.com.

Sensing modules enhance productivity

To ensure pertinent data is accessible and actionable, an enhanced version of the ProLinc SaaS-based solution features sensing modules. As a result of these modules, the solution assimilates with machinery in automated manufacturing environments and acquires vital factory floor insights for automated manufacturers. In doing so, manufacturers can compare their equipment and product statistics during the entire manufacturing process, leading to more quality, less downtime and improved operations. These statistics result in a holistic view of manufacturing companies' system conditions and productivity so that manufacturers can identify irregularities, quality issues, production delay origins and opportunities to enhance efficiency. All insights are also stored in secure, Blockchain-enabled databases, which can be accessed by stakeholders in real time. **Ashton Potter**, ashtonpotter.com.



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Pneumatic / Airbag Lifts



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Until Automation Does it All visit SouthworthProducts.com for ideas on how to make work faster, safer, and easier.