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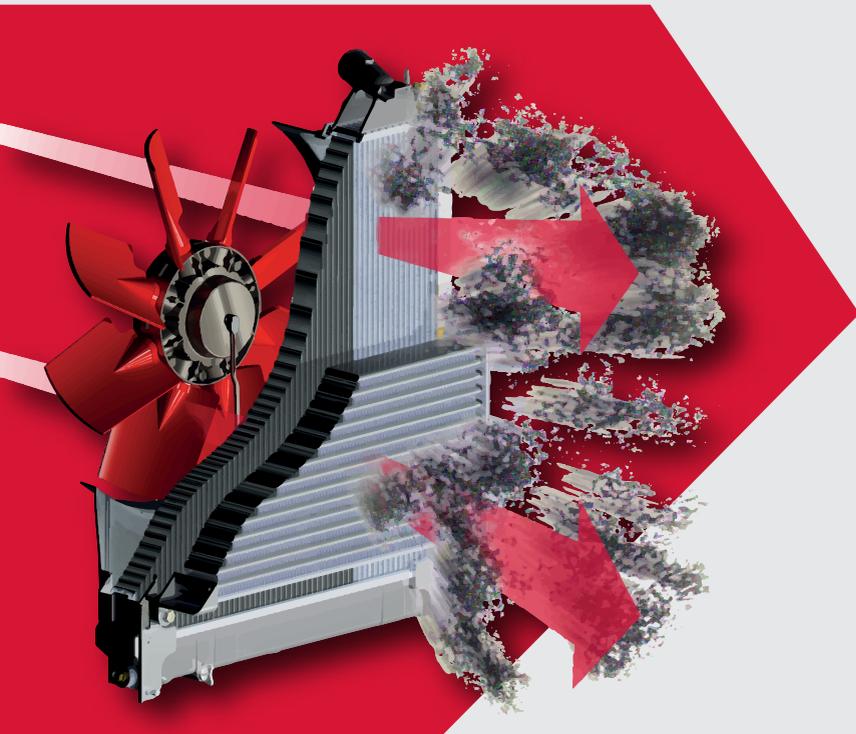
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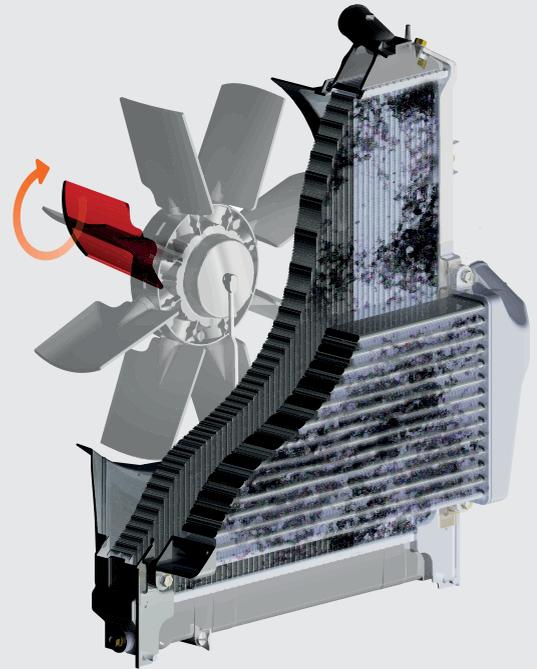
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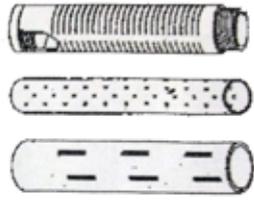
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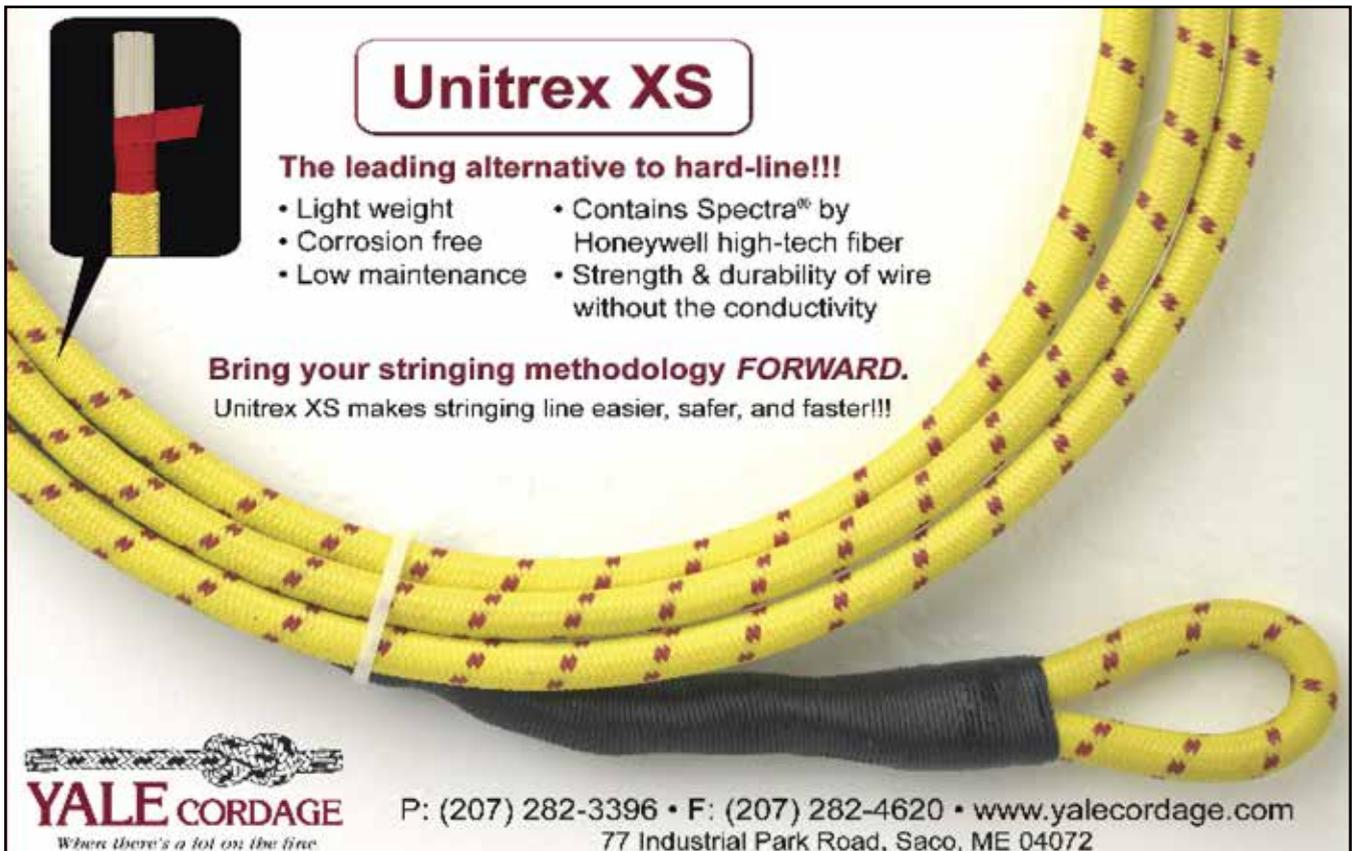
Largest All-Electric Tube Bending Machine Ever

Unison has commissioned what is believed to be the largest all-electric tube bending machine ever produced, at Newport News Shipbuilding - supplier of nuclear-powered aircraft carriers and submarines to the US Navy.

The machine is capable of generating over 265,000 lb-ft (360,000 Nm) of torque and can bend piping up to 8 inches NPS - with an outside diameter of 8.625 inches or 219.1 mm - with Schedule 80 wall thicknesses of 0.5 inch (12.7 mm).

The availability of all-electric, servomotor-controlled bending machines for pipes of this size brings significant productivity benefits to the fabrication of a ship's pipework compared with conventional hydraulically-powered machinery. These include smart software-controlled set-up and right-first-time precision bending - with exceptional accuracy and repeatability. Bend precision is aided by the inclusion of a unique laser-based system that automatically measures and adjusts bend angles for spring-back of the pipe metal.

Newport News Shipbuilding, a division of Huntington Ingalls Industries (NYSE:HII), has more than seven years of experience using Unison all-electric tube benders. The shipbuilder first began using this technology in 2007, when it took delivery of three Unison machines to help fabricate tubing and piping systems for use on aircraft carrier projects. •



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Shealy Truck Center Celebrates 75 Years as a Mack Dealer

Mack dealer Shealy Truck Center of Columbia, South Carolina recently celebrated its 75th anniversary as a Mack dealer. Originally established in 1932, company founder James H. “Bo” Shealy became a Mack Trucks dealer in April 1940 and has sold Mack truck models since.

“We congratulate Shealy Truck Center for being a part of the Mack family for 75 years,” said Stephen Roy, president of Mack Trucks North America. “It’s a tremendous accomplishment in light of the transformation the trucking industry has experienced in the past seven-plus decades.”

Friends of the dealership marked the anniversary with a celebration at the South Carolina State Museum in Columbia. Welcoming guests to the event was a restored 1940 Mack Model EG one-ton

flatbed truck, a model from the same year the Shealy dealership began selling Mack models.

The Shealy family carries on a philosophy first set by Bo’s brother Carl Shealy, who adapted to changes in the trucking industry by caring for the business and its customers. He also emphasized the “dignity of work,” a belief he had that all employees were given the abilities needed to be productive and proud of their efforts.

“Carl knew that embracing change was the key to success,” said Bruce Shealy, Carl’s son and current president of the business. “But he also knew that our core values were important too. By protecting both, we’ve ensured our success in the past and will continue to ensure our success in the future.”

Shealy Truck Center has known just three leaders throughout its history. Bo served as president until 1972, when his brother Carl took over. When Carl passed away in 1984, his sons Bruce and David assumed leadership of the business as president and vice president respectively. Today, a third generation of the Shealy family is now involved, with Bruce’s daughter Keri Hogue serving as the parts and service operations manager.

“Family has always been important to our business. After 75 years, Mack Trucks isn’t just a brand we sell, it’s become part of our family,” said Bruce Shealy. “Working together, we’ve adjusted to dynamic changes in the trucking industry and look forward to many more successful years.” •

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Greenlee® / A Textron Company (NYSE: TXT) is proud to announce the launch of its new website dedicated to the Greenlee Communications product line at www.greenleecommunications.com. The new site will support its diverse product portfolio as it expands into new technologies.

“We felt it necessary to develop one site where our customers could visit to learn more about the broad range of products and services we’re developing in technologies like Ethernet, fiber, and xDSL” said Jason Butchko, Greenlee Communications Vice President and General Manager. “This new site will allow us to post content that educates and informs our customers about new product capabilities as we become more of a thought leader in the telecommunications and broadband markets.”

All product, support, resource, promotions and Where to Buy pages are available on the new Greenlee Communications website. Customers can view new product announcements, detailed product information, obtain reference materials, and find career opportunities.

Greenlee Communications recently launched the DataScout™ 10G, further adding to their DataScout family of Ethernet/Transport multi-protocol network analyzers. For more information about this product and many others, visit the new greenleecommunications.com!

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At its groundbreaking ceremony in the Sycamore Prairie Business Park, IDEAL INDUSTRIES, INC. of Sycamore Illinois, celebrated the beginning of a construction process that will result in a new manufacturing facility of 220,000 square feet. It will replace several existing facilities in the area and provide additional capacity within the existing product lines as well as support new product launches which are being announced simultaneously with the construction.

Among the attendees were Craig Erdmier and Jim Kutz of Cord Construction of Rockford, the general contractor, and Bill Waldorf and Joe Winkelmann of Larson and Darby, project architects. Speaking on behalf of Sycamore leadership, Mayor Ken Mundy said, "We are so pleased that IDEAL, a 75 year contributor to our local economy, has continued to show faith in our community by making this very significant investment. We, of course, will be as supportive as we have always been."

Nick Shkordoff, General Manager/VP Electrical Division at IDEAL expressed his appreciation for the support IDEAL has received during this project from all involved. "We expect this building to be the cornerstone of a new era of growth for us. And we love having it right here in our park. The strong presence of the DeKalb County Economic Development Corporation (DCEDC) is a key components of what makes us such a strong community." •



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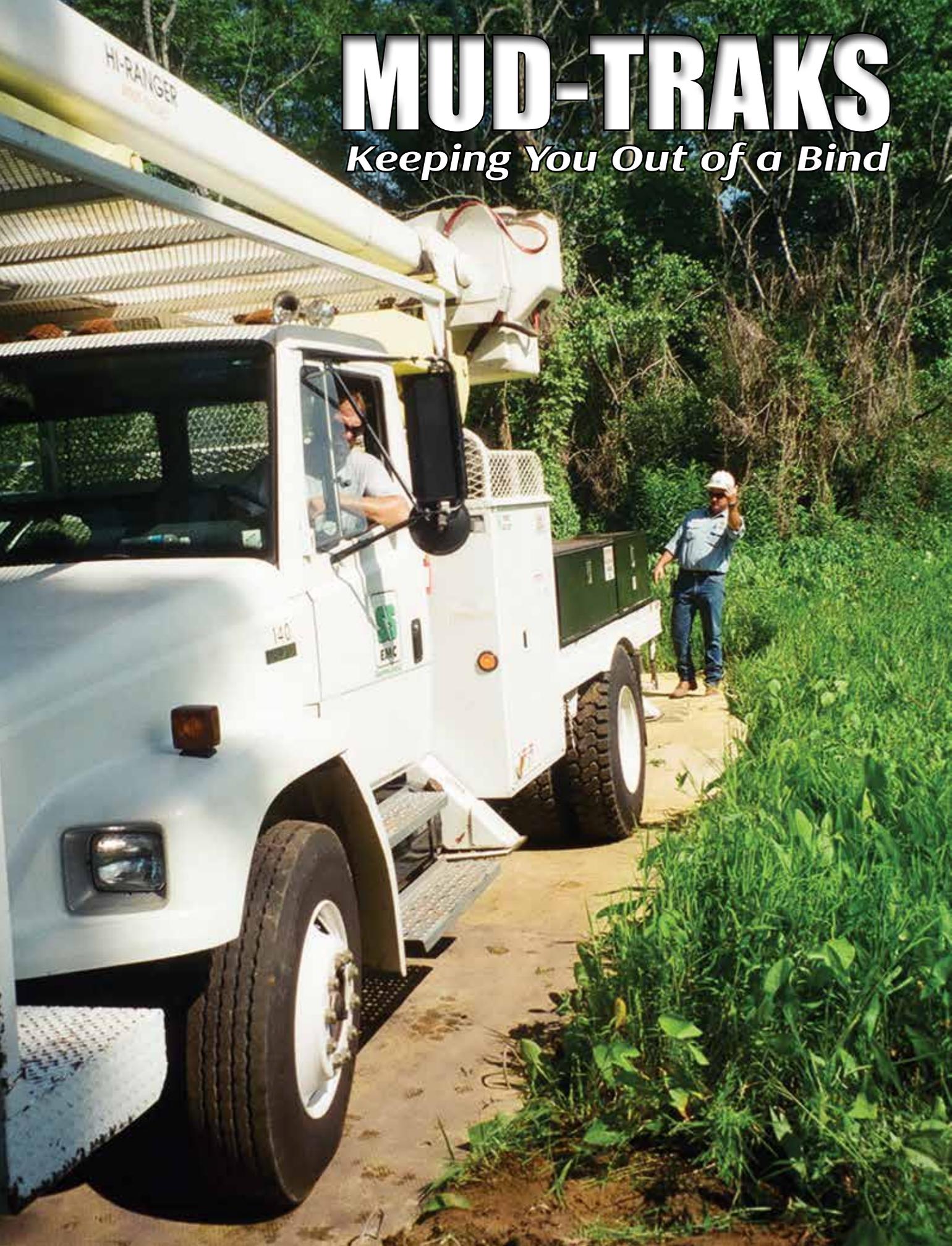
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Keeping You Out of a Bind



MUD-TRAKS® offers a lot of benefits and provides a variety of uses. It is the strongest, most rigid access mat, and yet, light enough for men to handle in the field. It is designed to move heavy vehicles over "wetland" like ground conditions.

It is made from solid fiberglass with an internal grid structure that channels tire load over an area more than 5 times larger than a comparable sized poly mat. It is rigid enough to "bridge" a 20-inch span while supporting 10,000 lbs. tire load. Last year it got even better! We've added a thicker fiberglass core that improves rigidity and strength. These lightweight, composite fiberglass panels are stronger than wood, plastic, or steel.

This innovative product comes in three distinctive model strengths: Lawn Mat for vehicles up to 35,000 lbs., Off-Road Super Lite Mat for vehicles up to 60,000 lbs., and Off-Road Super Mat for vehicles 100,000+ lbs. These mats take any vehicle through the harshest terrain and provide a stable, portable roadway solution. MUD-TRAKS® is too aggressive for pedestrian traffic and designed for use with rubber tire tracks vehicles. It has numerous applications in utility, drilling, structure movers, heavy construction industries and more.

Its advantages include strength, longevity, ease of handling, and safety. MUD-TRAKS® reduces 75 psi tire load to 11 psi; thus, it provides maximum load spread for the lowest psi. It has the most aggressive traction surface in the industry. It offers unmatched strength and durability. The mats are easy to lift, load, and unload. They fit in the back of the pickup truck. They are not affected by chemicals, temperature, or water. These mats do not conduct electricity, thus are a perfect solution for utility applications. Power companies and contractors around the country use MUD-TRAKS® to work on utility lines. Whether crossing a private property or unstable, rough, muddy conditions, they provide a safe roadway for utility trucks. If ground conditions support a man walking, MUD-TRAKS® will take any vehicle and equipment to the site. With its off-white color

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WEISS CHALLENGES AXIS OF POWER, EFFICIENCY & COST: INTELLIGENT 3-AXIS SYSTEM SURPASSES TRADITIONAL 4-AXIS SCARA ROBOTIC PERFORMANCE.

Industry leading specialist for rotary tables and automation, WEISS (Buchen, Germany), and its subsidiary WEISS North America, Inc. (Willoughby, OH), is a pioneer of direct-drive pick & place and multiple-axis modules. In an effort to advance palletizing applications that do not require the traditional SCARA (Selective Compliance Assembly Robot Arm) system's 4-axis design, WEISS has designed an economically advanced 3-axis design solution.

FOUR AXES ARE EXCESSIVE:

Traditional, tried-and-true SCARA robots remain a very popular solution for palletizing and tray packing applications. However, their typical design configuration features four axes consisting of two rotary axes and one lifting swivel unit—which is generally not needed for most palletizing applications. The bottom line is, there's no need to invest in 4 axes for the application.

In terms of figures, a SCARA robot costs on average around \$13,000—therefore the end-user pays roughly \$3,250 per axis. On average, the WEISS handling axes cost the same—but only three are required. This results in a figure of approximately \$9,750 for a handling system that covers a working space of 70 x 225 x 200 mm. Additionally, the WEISS 3-axis solution allows for an additional modular swivel unit to be used where necessary.

Ultimately, 4-axis SCARA robots typically have one axis too many for a lot of applications, can be costly, and take too long to program—especially when simpler and more economical alternatives like WEISS' 3-axis intelligent system is available.

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THREE AXES ARE OPTIMAL:

The major advantage of WEISS' 3-axis system is that end-users only pay for what they actually need. Thus, procurement costs for the three axes are significantly lower when compared with a 4-axis SCARA.

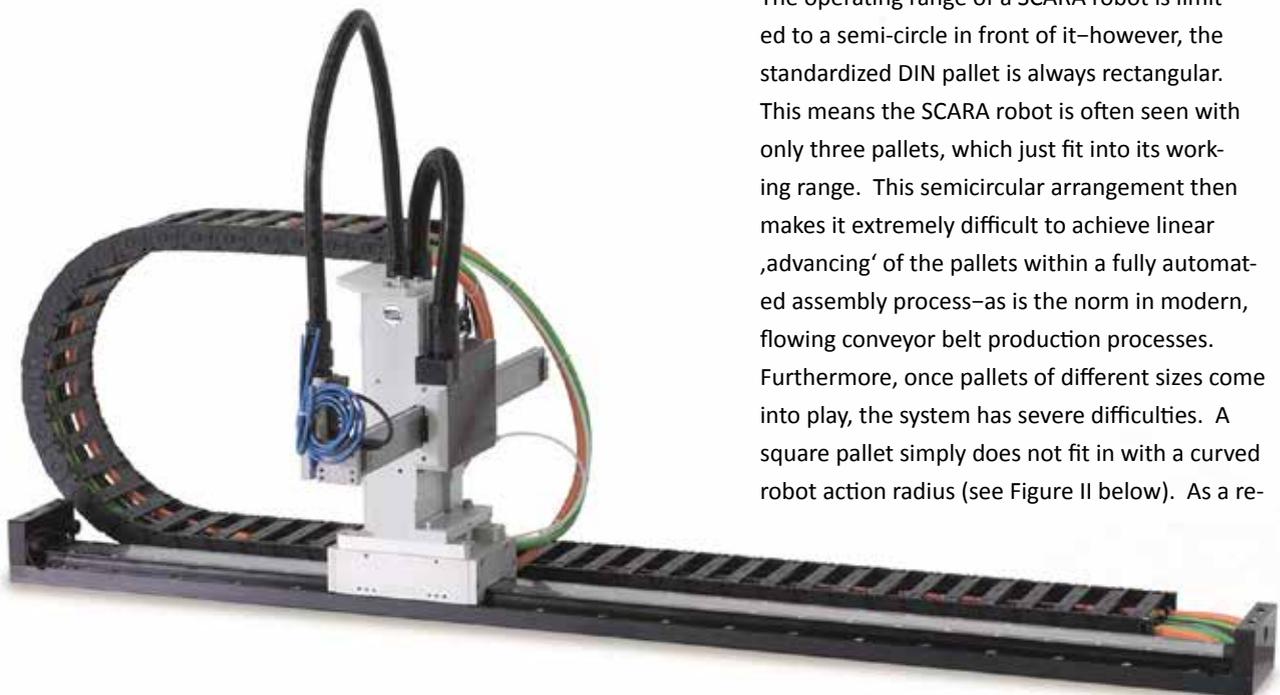
The key to this intelligent handling solution relies on standard components that have been proven in thousands of applications and can be combined to create perfectly matched sub-systems. For this specific palletizing example, WEISS selected a type HN 100 linear motor axis as the basic axis.

Permanently connected to the basic axis is the HP series direct-drive pick & place module—which forms the 2nd and 3rd axis (see Figure I below). Unlike a SCARA robot, the strokes of the axes can be precisely matched to the dimensions of the tray.

WEISS AXIS OF EFFICIENCY:

Vital efficiency advantages in the assembly process also come to the forefront when comparing the work process of the two concepts.

The operating range of a SCARA robot is limited to a semi-circle in front of it—however, the standardized DIN pallet is always rectangular. This means the SCARA robot is often seen with only three pallets, which just fit into its working range. This semicircular arrangement then makes it extremely difficult to achieve linear ,advancing' of the pallets within a fully automated assembly process—as is the norm in modern, flowing conveyor belt production processes. Furthermore, once pallets of different sizes come into play, the system has severe difficulties. A square pallet simply does not fit in with a curved robot action radius (see Figure II below). As a re-



sult, manual intervention is often the only option which may include: relocating, rearranging, or completely exchanging the pallets.

ONE AXIS COMBO VS. TWO SCARA ROBOTS:

When comparing the assembly and removal process, the difference between the two systems becomes even clearer as both stations are often positioned close together. In the SCARA scenario, there is usually only one response to this—using one robot for assembly and one for removal. This translates to a total of eight axes—with each axis costing roughly \$3,250 per unit.

Given the sophisticated combination of various handling and axis units, the WEISS automated process is considerably more flexible. For example, two pick & place units can be positioned on a basic axis with a length of up to four meters and can work independently of each other (see Figure I & III below). Instead of eight axes, only six are required. The customer effectively pays for six axes (basic axis with two carriages and two pick & place units) and utilizes the rail of the basic axis twofold—making cost advantages compared to the eight SCARA axes even more significant.

For processes where time is not a factor, the second pick & place module is not even needed. The remaining module on the long basic axis takes care of both assembly and removal.

AXIS OF GEARLESS DIRECT-DRIVE ADVANTAGE:

The design principle of a SCARA robot requires the use of different gears—whereas the handling solution from WEISS operates completely without gears, which is made possible by linear drives. This gearless design makes the handling system significantly more precise than the SCARA robot—which offers positioning with an accuracy of up to 0.01 mm, whereas the conventional SCARA can only manage 0.05 mm or more.

Eventually with age, the imprecision increases further due to wear on the gears. Of course, the smaller the parts, the more significant this becomes. Greater precision notably pays off even



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In terms of productivity, the axis combination is in another league as the drives are screwed on directly—giving the overall system its enormous rigidity. This allows for faster acceleration and shorter cycle times.

WEISS 3-AXIS CONCLUSION:

WEISS' 3-axis system provides a myriad of combinations that are more economical than SCARA robots for a multitude of handling tasks.

While ideal for palletizing and tray packing applications, the 3-axis system can also be leveraged for a wide range of associated applications including: automotive, medical, inspection, and electronics. In fact, the system is currently being used for the inspection of circuits in the produc-

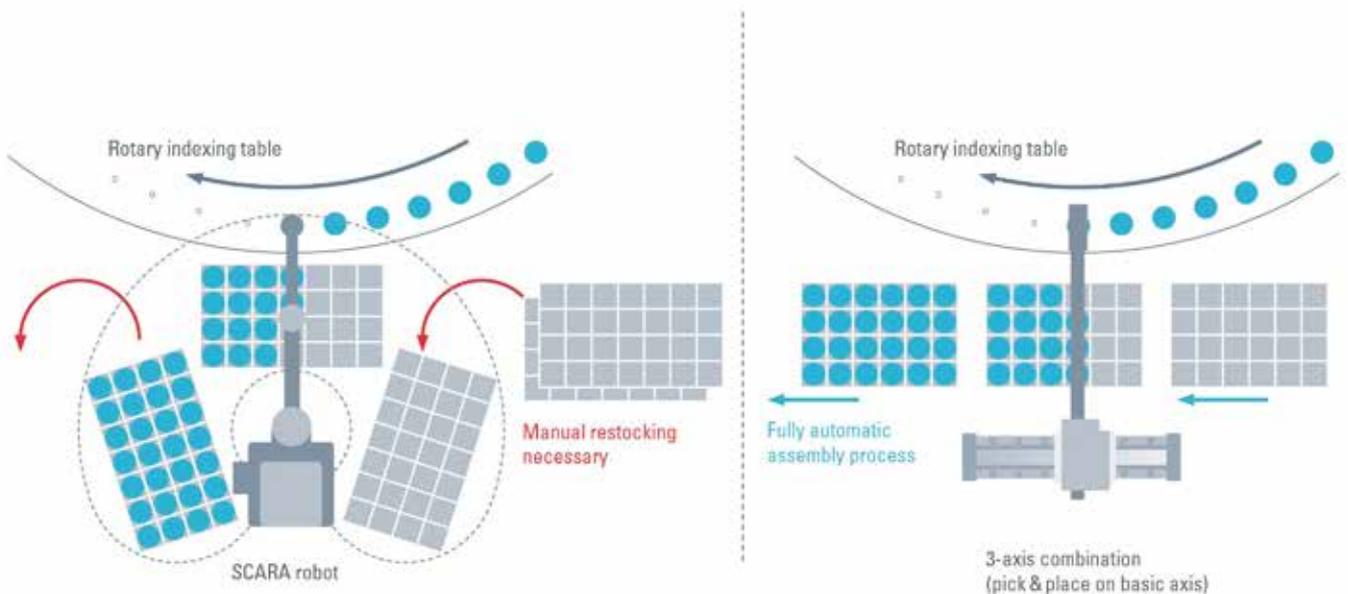
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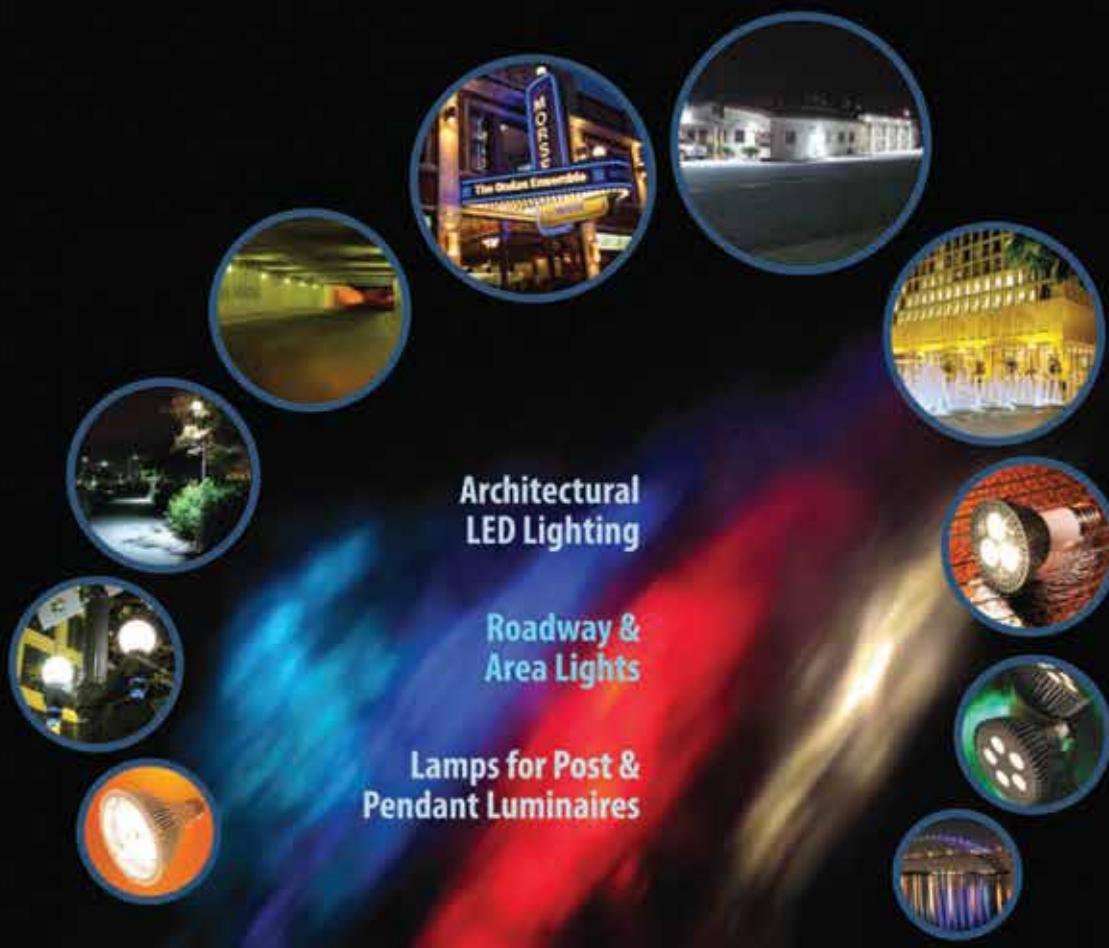
Importantly, end-users can leverage the WEISS Application Software (WAS) to enable simple and intuitive commissioning of the system's most important parameters. This makes life easier for smaller and medium-sized plant engineering companies in particular. In contrast, the programming process for the software of a SCARA robot is still a major barrier for these firms.

Finally, the axis combinations are not only easy to commission—the demounted individual modules can also be used in other automation processes at a later stage. This may take some time to pay off, but significant dividends are ultimately achieved.

Note: Whereas the example in this study utilizes the HP 140, WEISS' HP 70 direct-drive pick & place module also can be leveraged as an option to achieve specified end-user requirements for desired results. •

Comparison of SCARA robot with 3-axis combination from WEISS





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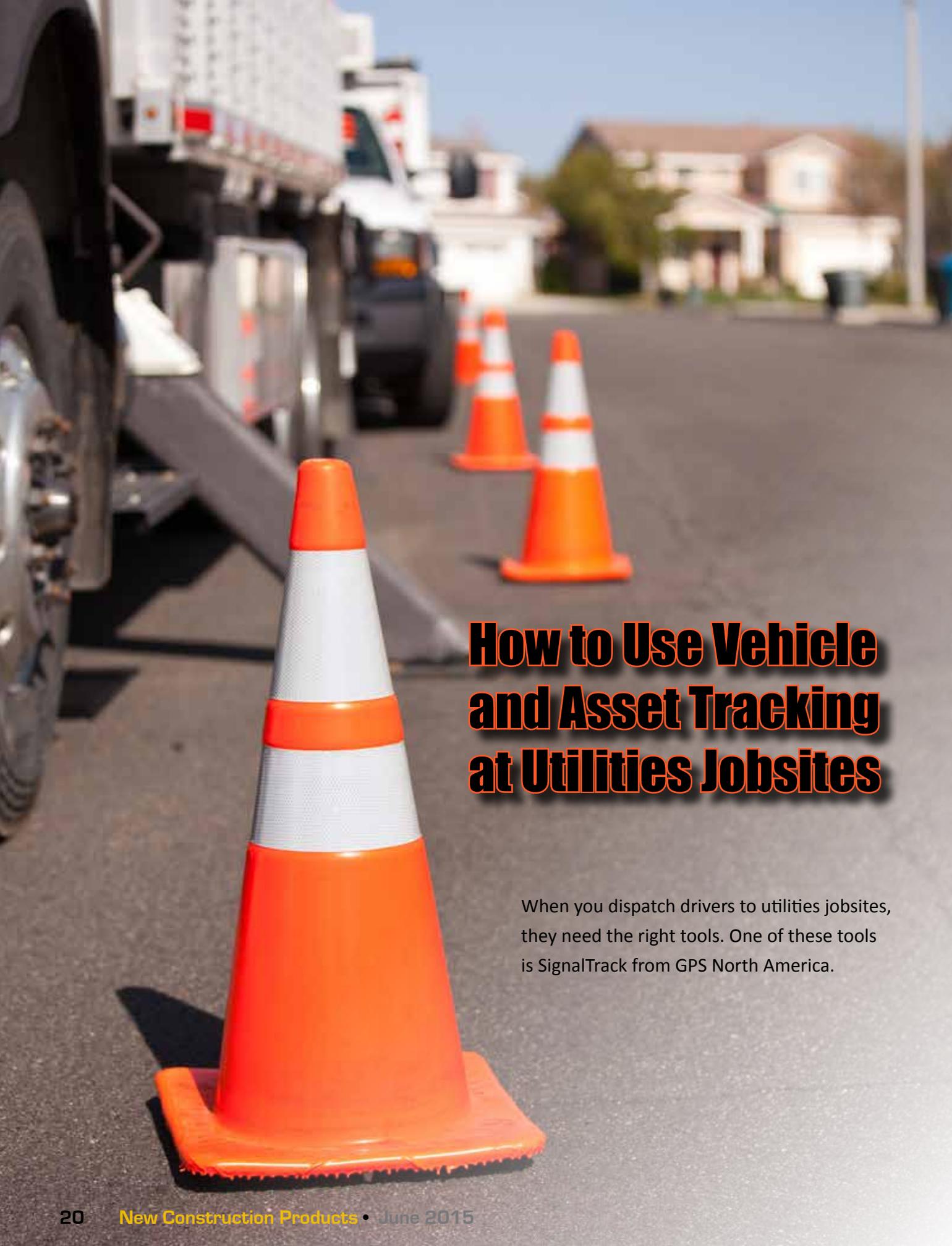


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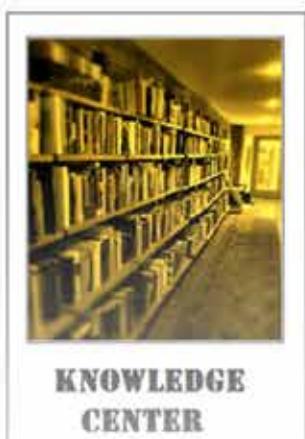
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addressing emergency concerns, performing routine maintenance, or completing other necessary tasks, you can make sure each of your drivers has a full but manageable schedule—and no one is underworked or overworked.

Be prepared with tools and equipment

Every measure to make sure workers get to jobsites quickly is rendered worthless if they show up with the wrong tools and equipment. Smart Forms allow workers to keep track of the assets needed at jobsites just as they can track their own progress. Locations and specifications of each site can be kept in SignalTrack's database, and before embarking on a job, drivers can make sure everything they need is in the vehicle and that it's the right equipment for the job. Then, when the job is complete, they can use a checklist to ensure they've packed up all their tools and equipment.

Protect assets from theft

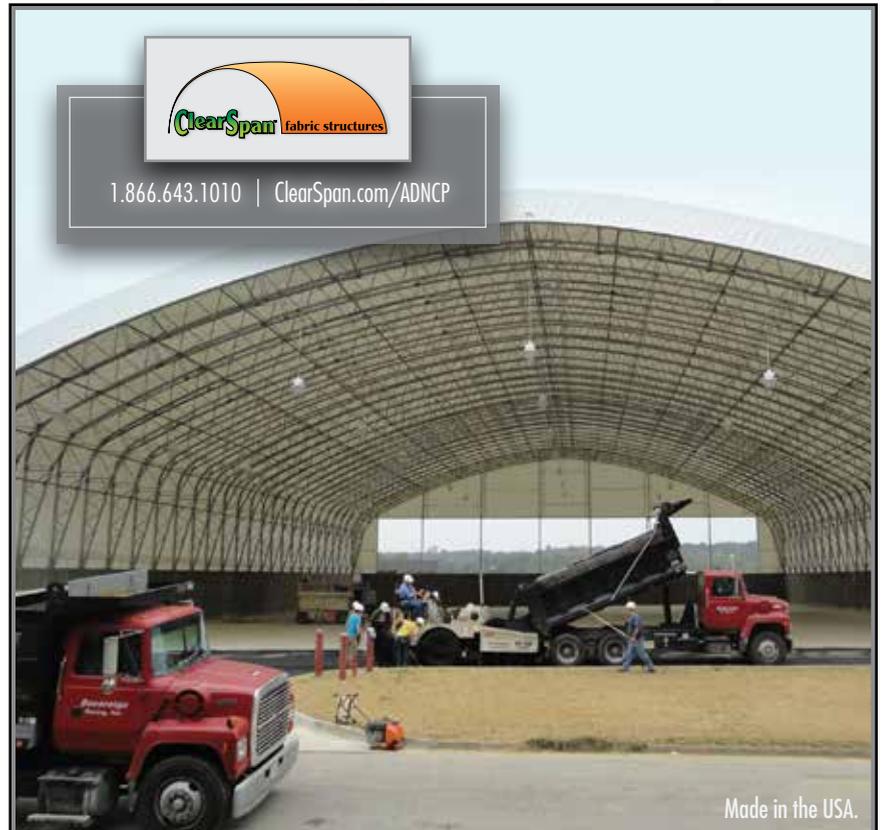
Utilities equipment is often the target of thieves, especially when it is expensive and has a high resell value. Therefore, once you've taken every effort to manage your drivers, their behaviors, and their habits with your vehicles and equipment, it's also necessary to secure those assets from thieves.

GPS North America's solutions include GPS tracking of assets, alarms that sound and notifications that are triggered when equipment leaves its designated area, and even container locking devices for trailers that lock in addition to tracking location.

SignalTrack's software allows you to set up reminders and track crucial data about your vehicles, assets, and workers. That way, you can be sure everything and everyone is operating safely and efficiently at jobsites.

Start tracking your utilities fleet today with SignalTrack, and see immediate results in the form of increased pro-

ductivity. To learn more, you can visit gpsnorthamerica.com or call 1-888-760-4477. GPS North America is also active on social media and can be found on Twitter via the handle @GPSNorthAmerica. •



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7100



7100B

**Pictured without high back seat*



7100S

**Pictured without high back seat*



Atlas Copco launched new version of intelligent compaction system during World of Asphalt

Atlas Copco's new, easy-to-use intelligent compaction system gives contractors real-time material stiffness readings to ensure superior soil and asphalt compaction. This maximizes operator productivity, which results in saving contractors significant time and money. And, its touch screen capability makes the system user friendly and convenient.

Atlas Copco launched the new version of the intelligent compaction system March 17 -19 at booth 2514 during World of Asphalt in Baltimore.

The intelligent compaction system uses a global navigation satellite system, such as GPS, to track the number of completed passes and a drum-mounted accelerometer to measure the surface's relative material stiffness. The system gives operators immediate materials stiffness results from within the cab to help minimize the number of passes. When using the system on asphalt, it also detects the temperature of asphalt to provide consistent, relative stiffness readings. In addition, Atlas Copco's intelligent compaction system helps contractors detect any loose materials so they can perform additional passes to reach the right compaction. This minimizes the risk of production related quality defects, which are time consuming and costly to remediate.

Contractors can use the intuitive system on a tablet to set project parameters and view compaction data. Once they achieve the optimal level of compaction, the program alerts the operator, so he or she can stop and reduce the risk of over compaction, which can affect the integrity of the material and damage the roller.

For additional convenience, contractors can get free on-site training from an Atlas Copco representative or dealer. •



Top Performance with TQK Right-Angle Precision Planetary Gearboxes

Bonfiglioli is proud to announce the new TQK series - Right-Angle Precision Gearbox version. This outstanding precision gearbox is complementary to the TQ series and boasts maximum power density, allows for top performance, and offers a space-saving installation solution. Due to its cutting-edge design and stellar performance, it covers a wide area of application where dynamic, high-speed, and top precision actions are required as well for reverse operations and a high number of starts and stops. TQK is particularly suitable for dynamic positioning applications for packaging and machine tooling as well for flat-bed machinery for wood working. In addition, it can carry out continuous running applications necessary for printing and paper converting.

TQK provides a maximum power density. It features a versatile design in 5 sizes (060, 070, 090, 130 and 160), ratios from 6 up to 200 thanks to its design based on one and two reduction sizes, all this with a nominal torque from 30-800 Nm.

These notable design features make the TQK series the best planetary gearbox solution available with the highest input speed rank to match the fastest servomotors on the market as well as the highest flexibility for input flanges to that can correspond with both Bonfiglioli and the most common servomotors. The TQK series can satisfy the most demanding needs by providing the most versatile and forward-thinking solution.

<http://tekinfo.link/rd3ea08850> •



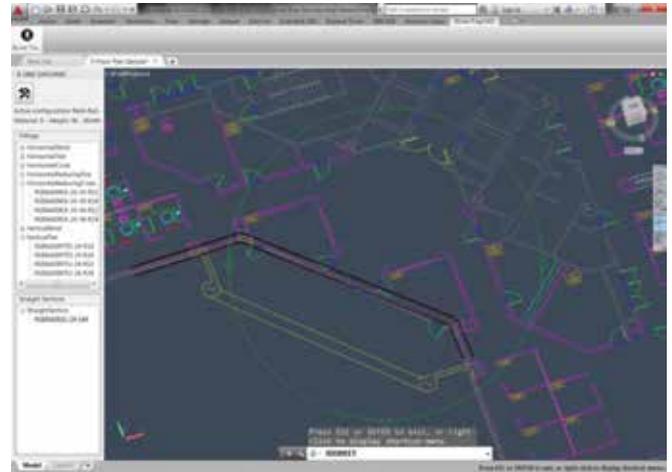
New From DEWALT

DEWALT introduces three new 20V MAX* Brushless High Torque Impact Wrenches. The impact wrenches are available in 1/2 Inch (DCF899) hog ring or detent pin anvils, 3/4 Inch (DCF898) hog ring with retention pin hole anvil and a 7/16 Inch (DCF897) quick release chuck specifically designed for utility applications.

These high-torque impact wrenches feature efficient, brushless motors and with the 5Ah 20V MAX* XR lithium ion battery pack they deliver the power, speed, and extreme runtime required by the professional. The 1/2 Inch (DCF899) hog ring or detent pin anvil impact wrench delivers 700 ft-lbs of max torque and 1200 ft-lbs of max breakaway torque.

With 3 speeds for application-specific control these impact wrenches offer the convenience of cordless technology and save time by eliminating cords and hoses of electric and pneumatic impact wrenches. At 8.9 inches long and just 7lbs each, the impact wrenches get into tight spaces easily and are comfortable to use over extended periods of time on the worksite. These impact wrenches feature LED work lights and provide the durability to stand up to jobsite environments.

Whether it's automotive, farm, or heavy machinery repair, concrete fastening, road or bridge crews, or elevator and iron workers – on the job, power and portability allow for productivity. The DCF899, DCF897, and DCF898 20V MAX* Brushless High Torque Impact Wrenches are designed for professionals and built Guaranteed Tough® by DEWALT. For specific sku, pricing and availability, www.dewalt.com. •



New From Eaton

Power management company Eaton today announced the release of its B-Line® series TrayCAD™ software, the latest version of AutoCAD® compatible cable tray design software intended to help minimize design time and associated costs. The software package incorporates Eaton's full breadth of B-Line series cable management products and assists design and build contractors and engineers in developing accurate cable tray designs which help improve overall purchasing decisions.

"We saw a major opportunity to cut time – and ultimately costs – at the design and bidding stages of construction projects," said Patrick Keller, associate product manager, Eaton's B-Line Division. "The innovative TrayCAD software allows global customers to overlay cable tray designs within their existing AutoCAD construction drawings and complete an entire bill of materials (BOM) with a click of a button, resulting in a simple and accurate design."

Eaton's B-Line series TrayCAD software is compatible with 64-bit versions of AutoCAD 2014 and 2015 operating on 64-bit Windows 7 and Windows 8 operating systems. Upon loading a design, users can select their cable management type, materials and support locations to build a three-dimensional wire-frame model of the cable tray and appropriate fittings. Once the design is complete, users can output a full BOM in a PDF or Excel format.

Eaton customers can download the free software online avoiding the high cost associated with creating models from scratch and time-consuming project rework. The program includes all NEMA and IEC B-Line series cable tray, cable ladder and pan tray products.

To learn more about TrayCAD software, visit www.cooperblineline.com/traycad. •



New From Gamber-Johnson

Gamber-Johnson announces a new Docking Station designed for the Panasonic Toughbook 54 semi-rugged laptop computer. Gamber-Johnson's Toughbook 54 dock is designed to leverage the expandability of the laptop and will accommodate the Toughbook 54 Performance model, and all models with the following integrated options: Insertable SmartCard (bottom), 2nd LAN, 4th USB (2.0), Rugged Fischer USB, VGA and Serial. The dock provides a convenient access area to the bottom Insertable SmartCard Reader; the user can insert and eject a Smart Card while the laptop is docked in the station. The dock is designed for the mobile worker; a spring-loaded docking connector ensures connectivity even over the toughest terrain and the push-button keyed latch enables the laptop to be easily docked and undocked while keeping it secure. The Toughbook 54 docking station is designed and tested to rugged environmental standards and has passed MIL-STD-810G shock/vibration testing and is supported with Gamber-Johnson's three-year limited warranty.

<http://www.gamberjohnson.com/> •



Hammerhead Announces New Pipe Splitting System

HammerHead Trenchless Equipment has developed a new system for replacing half-inch to 4-inch natural gas distribution pipe. Used in conjunction with HammerHead's line of cable winches, the tool string components include expanders, connectors, and splitting tools with replaceable hardened-steel blades. The system increases production rates for replacing existing runs of PVC, HDPE, MDPE and Aldyl-A pipe with new MDPE or HDPE pipe.

HammerHead's extensive research and development conducted in conjunction with contractor and gas company field tests produced the modular design. HammerHead's reengineered tools now allow contractors to easily replace worn tooling and choose from a selection of cable size and winch options. The integrated swivel design eliminates torque on replacement pipe as it is installed during pullback.

HammerHead's 12-ton pulling winch, the HydroGuide HG12 with patented, self-deploying downrigger, supports the new process. The HG12 simplifies set up and an adjustable boom can be set to the required depth without jacking up the machine. A solid, dual-capstan design provides a constant pulling force over the entire cable length to help reduce cable wear. The bull wheel and planetary drive system provide reliable power and control.

"This new system is much faster than old splitting or bursting methods. Its increased productivity makes pipe splitting an economical pipe replacement technique," explained Paul Rogers, HammerHead vice president of sales and marketing.

All winch systems available from HammerHead now include an optional ESID system (electrical strike identification device). These systems signal the operator and others on the job site of an electrical strike during pullback. An ESID also protects the winch operator should the strike occur while operating the machine. Using a cable winch as the static pulling device, production time is significantly increased.

Authorized dealers can be found on the web at www.hammerheadtrenchless.com or by calling 800.331.6653. (International: + [1] 262.567.8833). •

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Larson Electronics has added to its extensive range of industrial grade lighting equipment with the release of an 800 watt quadpod mounted work light. Built to provide a high power lighting solution that requires minimal setup time, the WAL-QP-2X400LTL-LED-100 provides operators with an ideal lighting solution that features a quadpod with solid wheels for portability and two 400 watt LED light heads.

“This new quadpod mounted work light is one of our most powerful, compact work lights,” Rob Bresnahan with Lar-sonelectronics.com said. “This light assembly produces a wide flood pattern that makes it ideal for illuminating large work spaces and job sites.”

Larson Electronics carries an extensive line of explosion proof lights, hazardous location lights, intrinsically safe lights, oil rig lights and explosion proof tank lights. You can view Larson Electronics’ entire line of explosion proof lighting at Lar-sonelectronics.com. Larson Electronics can be reached directly by calling 1-800-369-6671 or 1-214-616-6180 for international inquiries. •



Meco Miami Now Carrying Atlas Copco Dynapac Road Construction Equipment

Atlas Copco announced today that MECO Miami Inc., Miami, Florida, now offers its Dynapac asphalt and soil rollers and pavers. MECO Miami also carries Atlas Copco air compressors, light towers and handheld tools.

The 43-year-old family-owned company sells, rents and services a wide range of new and used equipment and parts for the agriculture, cranes, heavy lifting and mining industries in the United States and worldwide.

“In south Florida, the construction industry is thriving and every day there is more demand for high-quality equipment,” said Michael Vazquez, MECO Miami owner. “The Atlas Copco Dynapac road construction equipment helps us fill this growing demand.”

Atlas Copco designs its machines for optimal productivity and to withstand day-to-day use in tough working conditions. For example, many of Atlas Copco’s vibratory rollers use an Active Bouncing Control, or ABC, system that detects double jumping as soon as it begins to occur. The system shuts off the rollers’ vibrations to protect the frame and drum from damage that can occur from over compacting material. Features such as swing-out seats on its pavers coupled with some of the lowest decks in the industry also contribute to greater productivity.

“We are excited MECO Miami is expanding its offering of Atlas Copco products,” said Ricardo Perez, Dynapac regional sales manager at Atlas Copco Construction Equipment. “MECO’s reputation for providing excellent customer service coupled with the quality of Atlas Copco equipment is a winning combination.” •



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