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CONSTRUCTION • PUBLIC WORKS • NATURAL RESOURCES

Volume 26 • Number 8 • September 2021 • *English Edition*





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A Brief Word...

September once again has come around, and with it a return to a sense of time marching on that this month usually brings. Not just the perceived end of summer, with holidays over and the school busses returning to the highways and byways. It is also the meteorological end of summer, though the two are separated by a few weeks.

For Canadians, it promises to be a stressful month with yet another Covid wave predicted, scholastic machinations more chaotic than ever and the politicians trying to slip through the fog and into power with promises of “Bread and Circuses” to the populace.

Meanwhile, in the “Real World”, there are roads to be laid, buildings to be built, holes to be dug, and the winter season to prepare for. No longer can things be deferred, no more nipping off early on Fridays. Nature is the only thing that can stop construction in its tracks, so it now comes down to time versus weather.

The last issue of InfraStructures gave you ideas how to combat the coming season, this one may give you insight farther into the future. John Deere is entering a new era with the dissolution of their traditional cooperation with Hitachi. Hitachi too is planning ahead and intends to play a pivotal role in the creation of infrastructure for the “New Economy” signing an agreement with ABB.

As Winston Churchill said: “Give us the tools and we shall do the job”. Your spade, your survey, aren’t the only tools to help you. InfraStructures continues to be your most reliable media tool in your toolbox, on your desk, in your pick-up, or on the jobsite.

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On the cover: the Mercedes-Benz Zetros 40-t off-roader comes equipped with powerful engines and a permanent all-wheel drive system.

The heavy-duty truck can be used for delivering supplies to remote areas, as well as in energy exploration and in forestry operations, in all manner of extreme climates – from hot desert right up to the Arctic.

EDUCATION AT THE UTILITY EXPO SETS UTILITY PROFESSIONALS UP FOR YEARS OF CONTINUED SUCCESS

The Utility Expo's (previously called ICUEE) education programs have utility experts covered on the show floor, in the classroom and when they get back home.

Returning to Louisville September 28-30, 2021, The Utility Expo's field classrooms will feature 90-minute sessions. Attendees can select from 28 different sessions to fit

their schedule on topics including: fleet management, fleet accessories, safety, vegetation management, aerial devices, and horizontal directional drilling (HDD).

"Getting a personalized view of what safety looks like in the field is what makes the Field Classrooms so unique and relatable," said Monica Rakoczy, owner, EnterTRAINING Solutions, LLC. "Having a small group walk the show floor allows you at each stop to find takeaways that are

applicable to your team."

The Utility Expo will also feature up to 42 professional development hours (PDHs) worth of classroom instruction provided by Storm Water Solutions and Water & Wastes Digest at the Water Pavilion, topics including: asset management, best management practices (BMPs), digitization and automation, energy efficiency, erosion and sediment control and funding.

"This is the kind of information and education that sets utility professionals and businesses up for years of continued success," said John Rozum, the show director. "Just as importantly, the class sessions have limited enrollment, which means there is a greater opportunity for active participation and engagement with the instructors."

On October 1, the day after The Utility Expo closes, 50 on-demand education sessions become available for those who attended The Utility Expo with an All Access or Deluxe Badge. Those tracks include Workforce Solutions, Business Best Practices, Jobsite Solutions and Safety. Those who pick up the on-demand education pass will have access to the material for a year after the show.

The Utility Expo is the largest event for utility professionals and construction contractors seeking comprehensive insights into the latest industry technologies, innovations and trends. The biennial trade show is known for equipment test drives and interactive product demonstrations.

Source: Association of Equipment Manufacturers (AEM)

VORTEX ACQUIRES SEWER REHABILITATION CONTRACTOR, FLEER-TECH

As part of its European expansion strategy, the Vortex Companies, recently announced it has completed the acquisition of Fleer-Tech GmbH, one of the leading German companies in the field of closed sewer rehabilitation.

"We've been searching for the right partner to help grow our business in Europe," said Mike Vellano, Vortex Companies CEO. "Fleer-Tech best exemplifies the qualities we want in a service provider, along with the capabilities to support our existing line of products to deliver more solutions to its customers."

Fleer-Tech has built a reputation for being a highly competent and experienced trenchless sewer contractor. Founded in

2001, the company has steadily increased its services, while remaining focused on delivering cost-effective no-dig solutions.

"We are extremely excited to be a part of the Vortex family and look forward to integrating our solutions and experience," said Rüdiger Fleer, managing director of Fleer-Tech.

"I look forward to carrying on the legacy of Fleer-Tech's values and commitment to the market," said Quin Breland, Vortex Europe's managing director, who will work closely with Mr. Fleer. "I am excited to learn about this market and how Vortex can support an already strong brand in the best path forward for customers."

The Vortex Companies provides turnkey services to cost-effectively renew municipal, industrial, and commercial infrastructure. Along with its partners, the company offers the most diverse technology platforms in the industry. This includes manhole and pipe rehabilitation materials, polymeric coatings and resins, sewer robot systems and high-speed drain cleaning tools and allows customers the opportunity to select the best fit for their system.

Source: the Vortex Companies

METSO OUTOTEC TO DIVEST ITS WASTE RECYCLING BUSINESS

Metso Outotec recently announced it has signed an agreement to divest its Waste Recycling business line to Ahlström Capital, a family-owned investment company. This comes after Metso Outotec announced in October 2020 its decision to divest its Recycling business which comprises of the waste recycling and metal recycling business lines based on the company's strategic focus on the aggregates and mining industries. The closing of the transaction is expected to take place during Q4 2021.

The parties have decided not to disclose the value of the transaction. The divestment will have a minor positive impact on Metso Outotec's financial results. The Waste Recycling business has been reported as part of discontinued operations in Metso Outotec's financial statements. Metso Outotec continues with the divestment process of its Metals Recycling business line.

"We are very pleased that we have found a new owner for our business, whose strategic thinking and ambitions are so well aligned with ours," said Uffe Han-

sen, who is heading the Waste Recycling Business. "As a standalone company with a sole focus on waste recycling, we will be more agile and customer centric in order to further exploit growth opportunities."

"The Waste Recycling business, M&J, has a proven track record with a strong growth profile, in an attractive market," said Lasse Heinonen, president and CEO, at Ahlström Capital. "The business is well positioned to help drive sustainable

development with its premium brand offering, robust operations and skilled personnel. I believe that Ahlström Capital as an owner will bring further focus on and resources for growth initiatives and support the standalone business to reach its full potential."

The Waste Recycling business will be operating under the M&J brand, and its headquarters will be in Horsens, Denmark. All current employees of the business,

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approximately 120 persons, will transfer to the new company in connection with the transaction. The net sales of the business in 2020 totalled some €50 million (\$74 million).

Ahlström Capital focuses its investment activity on industrial companies, real estate and forests and combines the best features of an industrial company, an investment company and a family-owned company. Ahlström Capital invests assets that the Ahlström family has accumulated during 170 years and holds significant financial resources as one of the largest investment companies in Finland.

Source: Metso Outotec Corporation

GUILLEVIN ACQUIRES MCLOUGHLAN SUPPLIES

Guillevin recently announced the acquisition of McLoughlan Supplies Limited, a distributor of electrical, lighting, automa-

tion, and safety equipment in Atlantic Canada.

Founded in 1956 by James McLoughlan, the company has built its reputation over the past 30 years under the leadership of his daughter Ann and on the quality of its customer service, supported by a team of 60 seasoned experts with 3 branches in Newfoundland Labrador, located in St. John's, Corner Brook, and Grand Falls-Windsor, 2 branches in Nova Scotia located in Halifax and Dartmouth and a branch in Prince Edward Island located in Charlottetown.

"This latest acquisition consolidates our position of strength in the Atlantic market with a broader supplier base and new customers," said Luc Rodier, Guillevin's president and CEO. "It will allow us to offer greater coverage and more opportunities for our strategic partners in this market. I am thankful to Ann McLoughlan, former owner and president of McLoughlan, for the confidence she has placed in us and for her help in the company's transition."

Because of the shared values of employee growth and development, Guillevin is pleased that Ann McLoughlan has chosen it to carry on her legacy. The company will continue to operate under the McLoughlan name under the leadership of Cory MacGuigan, newly appointed general manager. He was general manager of the Charlottetown branch. All jobs will be maintained under the new ownership.

Source: Guillevin International

HDI COMPLETES PURCHASE OF NOVO BUILDING PRODUCTS

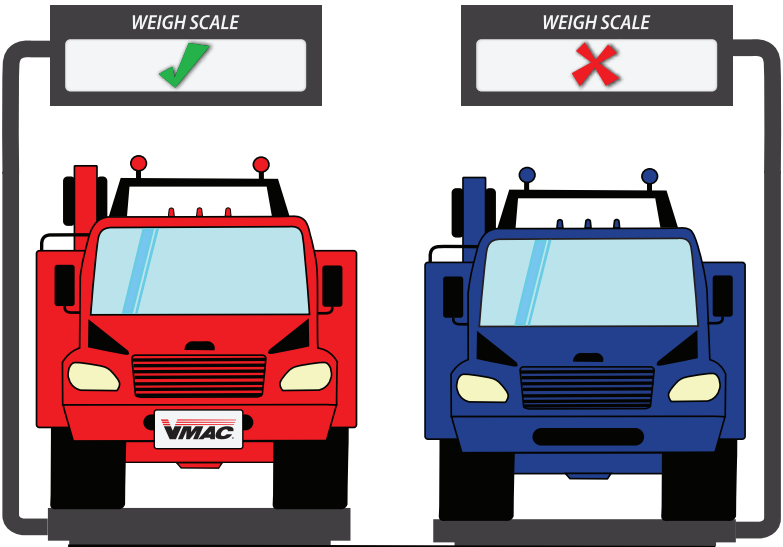
The sale of Novo Building Products from Blue Wolf Capital Partners to Hardwoods Distribution Inc. (HDI) was completed on July 31, 2021. Based in Langley, British Columbia, HDI is one of North America's largest wholesale distributors of architectural building products to the residential and commercial construction sectors. HDI operates a network of 70 distribution facilities.

"We're excited about joining the impressive HDI family of distribution," said Jeff Leys president and COO of Novo Building Products. "This is a time of growth at Novo Building Products and this recent acquisition helps strengthen us in the marketplace."

The intent for acquisition was originally announced in June with Blue Wolf.

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Novo Building Products is an industry leading manufacturer and distributor of stair parts, mouldings, doors and specialty millwork, along with a variety of board products. Based in Zeeland, Michigan, Novo Building Products operates Orna-mental Decorative Millwork, L.J. Smith Stair Systems, Empire Moulding & Mill-work, Southwest Moulding and Millwork and Novo Direct.

Source: Novo Building Products

BAYVIEW KENWORTH OPENS FULL-SERVICE DEALERSHIP IN DARTMOUTH

Bayview Kenworth recently opened a new full-service dealership in Dartmouth, Nova Scotia.

“Bayview Kenworth – Dartmouth will expand our support to fleets and truck operators serving the Halifax and Dart-mouth region. This area is the epicenter for trucking operations with its close proximity to the largest seaside port in Nova Scotia,” said Michael Nagle, Bayview Kenworth president and CEO. “The addition of this full-service dealership is a significant

milestone for our dealer group, and we’re excited to provide new trucks, service and parts to our customers.”

The 1,190 m² dealership is on a 1.2 ha site, features 10 service bays, and a 111 m² visual parts display supported by a well-stocked 370 m² parts warehouse.

Bayview Kenworth operates 5 Kenworth dealerships in New Brunswick includ-ing, Saint John, Fredericton, Moncton, Woodstock, Bathurst; and 2 in Nova Scotia, including Dartmouth and New Glasgow.

Source: Kenworth Truck Company

QUANTRON STRENGTHENS ITS GLOBAL PRESENCE VIA A SHARE SWAP WITH EV DYNAMICS

Quantron AG and Ev Dynamics join forces and become mutual shareholders. Quantron is a systems provider of battery and hydrogen-powered e-mobility for commercial vehicles such as trucks, buses and vans, with a focus on the electrifica-tion of commercial vehicles. Ev Dynamics (Holdings) Limited is a European-Asian consortium of companies specializing in

electric and hydrogen-based mobility.

Together, Quantron AG and Ev Dynamics will develop sourcing and supply chain opportunities for EV components. In ad-dition, the Ev Dynamics team will support Quantron AG in retrofits and technical developments. Together, they will have a production capacity of over 10,000 vehicles per year. Upon completion of the share exchange, Ev Dynamics will have approxi-mately 14% of Quantron AG’s share capital. The majority shareholder of Quantron AG continues to be Andreas Haller.

“Quantron and Ev Dynamics will jointly launch BEV and FCEV vehicles. Quantron is developing the products based on our many years of expertise in Germany and Europe. Production will be carried out by Ev Dynamics. Ev Dynamics will thus play an important role in our global growth strategy. The 2 companies will evalu-ate strategic partnerships with fuel cell technology companies. The share swap is another milestone in the strategic growth of both companies,” said Andreas Haller, founder and CEO of Quantron AG.

“Quantron is an ideal fit for our group of EV-focused companies. Quantron has long-standing EV expertise for commercial vehicles and has excellent market access in Europe. Ev Dynamics will become one of QUANTRON’s manufacturing facilities,” added Miguel Valdecabres Polop, CEO of Ev Dynamics.

Source: Quantron AG

MICHELL BEARINGS ANNOUNCES THE INCORPORATION OF U.S.-BASED BUSINESS

Michell Bearings, a UK-based Bab-bitt bearing manufacturer that supplies products to the global industrial and naval industries, has announced the incorpora-tion of a U.S. business, Michell Bearings Inc.

The incorporation will allow customers in North America, especially those in the U.S. naval industry, to collaborate with Michell Bearings in more efficient way. It will also assist Michell Bearings in provid-ing engineering and manufacturing content on future programs from the U.S.

Located in Sioux Falls, South Dakota, Michell Bearings Inc. will provide a hub for all current and future U.S. contracts. Plans are also in place to open a sales and engineering head office in Philadelphia, Pennsylvania, during 2022.

The new facility will enhance Michell



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*Shown with optional SmartGrade feature and SG96 DozerBlade combination.

Hiab Acquires Galfab

Hiab, part of Car-gotec, has entered into an agreement to acquire the U.S. manufacturer Galfab, which makes roll-off hoists and related equipment. The acquisition broadens Hiab’s demount-able portfolio while Galfab’s equipment will be included in

Hiab’s nationwide US sales and service network.

Galfab was launched in 1992 by the Galbreath family and apart from the legendary hoist designed by Don Galbreath, it also offers other products including compactors, containers and self-dumping hoppers. Its headquarter and main manufacturing site is in Winamac, Indiana, but Galfab also has sites in Phoenix, Arizona, and Houston, Texas. It currently employs around 100 people. Galfab will become part of Hiab’s Demountables, Forestry & Recycling Cranes division, which includes hooklift and skiploader de-mountables sold under the MULTILIFT brand, as well as JONSERED recycling cranes and LOGLIFT forestry cranes.

The acquisition expands Hiab’s U.S. manufacturing footprint that previously included the multi-assembly unit for WALTCO tail lifts in Streetsboro, Ohio.

The acquisition is subject to passing the approval process of sellers and Hiab. Closing is expected to take place during Q3 2021.

Source: Cargotec Corporation



Bearings’ current service to U.S. customers, enabling the coordination of U.S. supply chain activities, manufacture and assembly from the Sioux Falls site for those contracts where in-country content is required. This will expand the company’s offering to its customers in North America. The announcement, at the Sea, Air, Space exhibition in Maryland, follows many successful contracts for the UK manufacturer from U.S. customers involving both industrial and naval product

applications, with engagement on naval projects dating back almost 50 years. “We are delighted to announce the incorporation of our U.S. business at the exhibition this week. The event marks the first time that we have exhibited at a naval show in the U.S. which is an important milestone for our business,” said Geoff Humble, sales and marketing director at Michell Bearings. Last year Michell Bearings announced the celebration of its centenary year follow-

ing its incorporation in 1920 by Australian engineer, Anthony George Maldon Michell, who invented the hydrodynamic bearing in 1905. Now a member of the British Engines Group, Michell Bearings employs over 150 people within manufacturing sites in the UK and India, as well as a long established global sales network. Source: Michell Bearings

HYENG CORPORATION ESTABLISHED FOR JOINT DEVELOPMENT OF HYDROGEN-FUELED MARINE ENGINES

Kawasaki Heavy Industries, Ltd., Yanmar Power Technology Co., Ltd., and Japan Engine Corporation formed a consortium to pursue joint development of hydrogen-fueled marine engines for ocean-going and coastal vessels towards establishing a world-leading position in hydrogen engine technologies.

With the growing need to reduce greenhouse gas emissions, marine engines are expected to transition to various alternative fuels in the coming years. Among the many alternatives, hydrogen is attracting global interest for its application in a wide range of energy and mobility industrial sectors as a fuel that offers zero-emissions. The companies are looking to develop technologies in the hydrogen value chain towards global expansion of this important alternative fuel. By cooperating on common fundamental technologies such as basic experiments and analysis on hydrogen combustion, materials, and sealing techniques, as well as classification society requirements, each company aims to bring hydrogen-fueled engines to the market by 2025.

Kawasaki Heavy Industries will develop medium-speed 4-stroke engines, Yanmar Power Technology will focus on medium- and high-speed 4-stroke engines, and Japan Engine Corporation will embark on the development of low-speed 2-stroke engines. All 3 simultaneous developments will enhance the product lineup of propulsion and auxiliary (generator) engines for a wide range of vessels. In addition, a hydrogen fuel storage and supply system will be developed as part of the integrated hydrogen fuel system.

By developing advanced hydrogen marine engine technologies based on the distinctive engines and quickly launching in the market, the consortium will contrib-

ute to the Japanese shipbuilding industry. Furthermore, the companies aim to revitalize the Japanese maritime industry and realize a sustainable society by promoting the uptake of hydrogen-fueled engine technology for marine vessels. Source: Yanmar Power Technology Co., Ltd.

DANFOSS FORMALLY COMPLETES ACQUISITION OF EATON’S HYDRAULICS BUSINESS

Danfoss has officially finalized its US\$3.3 billion (\$4.1 billion) acquisition of Eaton’s hydraulics business following confirmation of all necessary regulatory approvals and

closing conditions. The move will see the Danfoss Group grow in size by a third and establish itself as a global leader in mobile and industrial hydraulics. Mobile hydraulics has been one of Danfoss’ core and most successful businesses for over 50 years. The acquisition of Eaton’s hydraulics business is a vital aspect of Danfoss’ growth strategy. Eaton’s hydraulics business will be combined with the Danfoss Power Solutions business segment. Combining the 2 organizations will double the size of Danfoss Power Solutions, increasing its innovation capacity twofold.

The strengthened Danfoss Power Solutions will have the broadest selection of mobile and industrial hydraulics products and solutions available on the market, with the full line offering including fluid conveyance systems. The company’s distribution channels have also been significantly boosted, while its local application support and geographical reach have increased considerably. All of these benefits will enable Danfoss Power Solutions to become an even stronger technology partner for existing and new customers, plus take the lead in digitalization and electrification. Source: Danfoss Power Solutions

New, Compact Ripper With High Breakout Force

Rototilt® continues its investments in high-quality tools with a new, compact ripper with high breakout force. Featuring robust construction and wear-resistant steel in HB450 at the front, rear and sides, it is just the tool for those truly tough jobs.

The new model has received consistently solid ratings from the operators who have had the opportunity to test it.

“Excellent breakout force, you could feel right away. The new design has a shorter and more curved shape that lets me get under the frost much better than before,” said Niklas Bjöörn at Br Bjöörn AB, a contractor based in Obbola, Sweden.

The new, shorter ripper is ready for delivery for machines rated for 2 t to 32 t and is a complement to the existing ripper family. It is optimized for Rototilt machine couplers and tiltrotators with attachment sizes S40, S45, S50, S60 and S70. The new ripper can manage high breakout forces due to its reinforced attachment frame.

Source: Rototilt Inc.




Detect Leaks with the REED C-383 Combustible Gas Leak Detector

The REED C-383 gas leak detector features a quick response and a high accuracy to detect even the smallest leaks. It can detect a vast range of gases including natural gas, methane, benzene, ethane, propane, butane, acetone, alcohol, ammonia, gasoline, jet fuel, industrial solvents, lacquer, paint thinner and naphtha.

It features a tricolor LED bar indicator and 390 mm gooseneck for hard-to-reach areas. It is designed for simple, one-handed operation and has a user-adjustable sensitivity function. It comes complete with batteries and a practical hard carrying case.

Source: ITM Instruments





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The Future of Tree Removal

An army of arborists and tree care specialists have spread throughout California to clean up the debris and charred remains from this past years' record wildfires. The recovery effort has taken a big step forward with the delivery of a new fleet of SENNEBOGEN tree care handlers, signaling the arrival of mechanized equipment for tree removal.

At the forefront of this clean-up is Mowbray's Tree Service, which is based in San Bernardino and manages skilled crews throughout the southwestern U.S. state. Richard Mowbray, along with his father and grandfather before him, built



their business providing vegetation and tree maintenance services for California's largest energy utilities.

This year Mowbray's has deployed crews totaling 1,500 tree care workers plus up to 30 subcontractors with another 800 employees.

"Utility customers represent pretty much the entirety of our business, said Richard Mowbray, CEO and president of the company. "We're known for vegetation

management, right-of-way maintenance and high-hazard tree removal."

In January of 2020, Mowbray's launched a new service division dubbed Mechanized Tree Removal.

This newest division of Mowbray's is built around the unique capabilities of the SENNEBOGEN tree care handlers,



primarily the 718 M model. Mowbray's is well accustomed to using specialized tree care equipment, including a fleet of aerial lifts, cranes, and grapple trucks. But with the 718, Richard Mowbray sees a new level of productivity and safety emerging in the industry.

Based on SENNEBOGEN's extensive line of log handling and material handling machines, the 718 is a 19 t unit equipped with a 13 m telescoping stick with a grapple



saw attachment. Its powerful hydraulics are tuned for delicate tree trimming as well as heavy cutting. With its 1,700 kg lifting capacity, the 718 easily grasps, cuts, moves and stacks whole trees and large limbs in a single smooth movement.

In the Maxcab, the operator can hydraulically elevate to an eye-level of 5.5 m, and adjust the cab's tilting mechanism to improve visibility into work zones. With its clear line-of-site, powerful grip and agile saw head, the 718 is often able to extract trees adjacent to high-voltage lines without requiring the cables to be de-energized.

SENNEBOGEN also offers 2 larger machines in the tree care lineup. Like the 718, the new 728 is a rubber-tired model with a slightly heavier base and another 7 m of reach. The 738 is even larger with a total reach of 22.8 m and is designed for larger trees and more challenging terrain.

Along with their astonishing productivity, the 718 and 728 (coming soon) are easy to transport quickly from site to site. Both machines are within the size and weight limits allowed to be moved on state highways without special permits. The crew can simply drive the machine onto to a flatbed trailer, lash it down, and go.

Source: SENNEBOGEN LLC



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The Media Kit is available on InfraStructures' website at www.infrastructures.com

Terex Utilities Introduces Foundation High Production Auger

Terex Utilities will show multiple new products as well as new technologies at The Utility Expo, September 28-30, 2021, in Louisville, Kentucky.

"Terex is the only digger derrick manufacturer that also manufactures tooling. We understand how to design auger tools for maximum productivity and efficiency," said Dale Putman, product support manager.

New to the Terex® Auger Tool product line is the Foundation High Production Auger, which is designed to improve drill footage in a variety of soil conditions.

"Featuring standard heavy duty 1" (25.4 mm) flighting and optional extra heavy duty 1 1/2" (38.1 mm) flight, this tool is commonly used for drilling construction footings," added Mr. Putman. "The flighting pitch enhances material flow from the tooth cutting area, which increases productivity. In addition, tooth angles and location are precisely controlled to improve penetration."

The Foundation High Production Auger has a square drive pilot bit for up to 30 cm diameter.

The company also presented an auger tool for medium to hard ground and one for loose and soft materials.

The Terex Bullet Tooth Rock Auger is ideal for hard limestone, cobbles, boulders, and fractural rock formations. Standard flighting is 1" (25.4 mm) and extra heavy-duty flighting of 1 1/2" (38.1 mm) is available.

"The cut pattern and tooth attack angle allow the bullet teeth to act as 'fingers' that penetrate through and lift up fractured



or broken material," said Dale Putman. "This tool works with the digger derrick core barrel with extendable pilot bit option to improve functionality and increase productivity."

Source: Terex Corporation

Ports America Chesapeake orders hybrid RTGs from Konecranes

By January 2022, Ports America Chesapeake (PAC) will have 15 new hybrid rubber-tired gantry (RTG) cranes from Konecranes to expand operations and reduce diesel emissions at Port of Baltimore's Seagirt Marine Terminal. The new equipment will not only reduce the terminal's environmental impact, it will increase efficiencies – significantly increasing the current RTG container handling capacity.

Ports America is the largest terminal operator and stevedore in the U.S., operating in more than 33 ports and 70 locations in North America. Ports America Chesapeake's Seagirt Marine Terminal is currently handling an annual volume of just over 1,000,000 Twenty-foot Equivalent Units (TEU) and, due to a boost in e-commerce, continues to break monthly container handling records. The contract with Konecranes, signed in January 2021, is a part of the terminal's expansion investments focused on ensuring the terminal is equipped with the latest technologies and equipment to support future growth.

The new RTGs are an important step in the terminal's long-term plan to have fully electric operation and zero tailpipe emissions, while maintaining industry-leading truck turn times. They build upon Seagirt's current fleet of RTGs and will replace older equipment. Konecranes will deliver the new RTGs, which will be remotely operated and equipped with a number of operator and safety-enhancing smart features, in 3 batches starting in Q1 of 2022.

This contract is part of Eco-lifting, Konecranes' vision to increase its handprint – meaning the beneficial environmental impact that can be achieved with our product and service portfolio – while reducing customers' carbon footprints. From eco-optimizing diesel drives, to hybridization and fully-electrified fleets, Konecranes will continue to do more with less.

A strong focus on customers and com-



mitment to business growth and continuous improvement make Konecranes a lifting industry leader. This is underpinned by investments in digitalization and technology, plus the company's work to make material flows more efficient with solutions that decarbonize the economy and advance circularity and safety.

Source: Konecranes Port Solutions

FAT TRUCK® Revolutionizes the Way to Work on Powerlines

Zeal Motor Inc. recently announced the launch of its new high speed capstan drive mounted on the FAT TRUCK®. A first in the utility industry, the high-speed capstan drive integrated on the back of an amphibious vehicle redefines the safety standards and the productivity level when working in harsh terrain on powerlines.

High-speed capstan drives are usually mounted on much larger equipment. Before now, it was not possible to work efficiently with a high-speed capstan drive with smaller and more affordable equipment. The integrated solution mounted on the back of a FAT TRUCK® answers the market's need of working in safer conditions and being more productive in harsh terrains.

“By diverting the high flow hydraulic of the FAT TRUCK® we were able to achieve a significant gain of productivity and improve the lifting capacity to install/change insulators, transformers or any other lifting



requirements at the pole. This new option is totally integrated on the vehicle and was designed with the expertise of the linemen. The utilities now have the capacity of the larger equipment, the lower cost of operation and mobility of the smaller ATV's. It gives the opportunity to work where conventional equipment usually get stuck. We are talking about major cost savings on operations and on vehicle transportations,” said Amine Khimjee vice president of sales

& marketing at Zeal Motor Inc.

The synergy of having the utility companies involved in the project was key to have the right tool at the right moment for the right job. The FAT TRUCK® integrated solution with the high-speed capstan drive offers a lifting capacity of up to 860 kg, a maximum speed of up to 90 m/min and can handle angles from -30° to +45°.

Source: Zeal Motor Inc.

The Compact SENNEBOGEN 613 E Telescopic Mobile Crane Proves Its Flexibility and Safety in Mining

This time the traditional German miners' greeting “Glückauf” (Good luck) is the motto for the 16 t telescopic crane from SENNEBOGEN, because in Europe's largest rock-salt mine in Heilbronn it is going underground to support the miners in their work. Südwestdeutsche Salzwerke AG has already purchased 12 SENNEBOGEN cranes since 2000.

Mining is one of the most traditional industries in Germany and the world. At the Heilbronn rock-salt mine, salt has been extracted from salt layers up to 50 m thick for more than 125 years. In addition to the extraction of raw materials, however, waste disposal is also an important business area of the mine. Waste materials are treated and then recycled or disposed of. For a long time now, the miners have been supported by powerful machines from SENNEBOGEN. Recently, they welcomed a new SENNEBOGEN 613 E telescopic mobile crane in their fleet, which, thanks to its compactness and flexibility, is perfect for demanding underground operations.

When you think of a mine, you usually think of narrow chambers and shafts, and you would be right. In order to reach its underground destination, the machine was dismantled for transporting it through the shaft to a depth of about 200 m. After that, it was reassembled on site.

It is equipped with a compact 3-part 14.6 m telescopic boom. The overall height of the machine, including the FOPS protective roof grating on the cab, is only 3.28 m, so that the crane fits easily into the hollow spaces. Special outriggers are used to fit the narrow shafts, while still ensuring excellent stability when lifting loads.

The 16 t crane is primarily used as a stacking vehicle for moving big bags of



Photo: Südwestdeutsche Salzwerke AG

waste materials weighing up to 2 t, so that they can be handled and disposed of in a long-term safe and environmentally friendly manner. When picking up and positioning the load, the machine is generally operated with a very flat boom angle due to the low ceiling height.

Source: SENNEBOGEN Maschinenfabrik GmbH

DSM and SABIC Create Recycled-Based Dyneema®

Royal DSM and SABIC recently announced a collaboration to create recycled-based Dyneema®.

By working together with members of CirculariTeam®, DSM will produce recycled-based Dyneema® made using SABIC's certified circular ethylene as a pilot project in both a sailing rope and a pelagic trawl net application. The circular ethylene, from SABIC's TRUCIRCLE™ portfolio, uses mixed plastic waste as feedstock (mass balance approach), which not only contributes to preventing valuable plastic from becoming waste and the avoidance of carbon emissions compared to incineration, but it will also help preserve fossil resources. These pilots are an important early-stage milestone in the journey toward making fully circular Dyneema® from HMPE post-production and post-consumer waste.

“We're proud to be one of the first manufacturers to integrate recycled-based Dyneema® within our products and demonstrate the material's feasibility. By collabo-



rating with materials science pioneers such as DSM and SABIC, we are able to create products that not only deliver superlative functional performance but also have a lower environmental impact. Our products are trialed and tested by professional offshore sailing teams including 11th Hour Racing Team, a proud partner of ours at Marlow, with whom we share a progressive approach to seeking sustainable solutions: no more business as usual,” said Jon Mitchell, managing director at Marlow

Ropes.

“Warm congratulations to DSM and SABIC for pushing the boundaries of science to deliver a truly unique product. We're proud that our ropes can be produced from what once was typical household plastic waste. This is an important stepping stone towards becoming circular,” said Klaus Walther, managing director at Gleistein.

Source: DSM Protective Materials

IceStriker™ 2000-3300 SSA/SSC Salt Spreader

Hilltip announces its new IceStriker™ 2000-3300 SSA/SSC stainless-steel salt spreaders, designed for use on 3/4-ton trucks. These new electric-powered spreaders provide new capacity and material options for Hilltip's innovative IceStriker technology, which contractors can use to spread bulk sand and gravel, bulk/bag salt, sand-salt mixes and fertilizers.

Powered by either 12- or 24-V dual motors, the IceStriker™ 2000-3300 SSA/SSC salt spreader line includes 3 models with capacities of 1.5, 2.0 and 2.5 m³. The modular hopper bodies and all mounted components are constructed of stainless steel, which helps prevent rust and corrosion.

The high quality 12-gauge, stainless steel hopper body facilitates smooth material flow. Material delivery is further optimized by an inverted V with a vibrator to help prevent bridging. To provide consistent material flow to the spinner, the SSA version includes a 15 cm, stainless steel, 3-pitch auger, and the SSC version is equipped with a 31 cm pintle chain system.



All models include a stainless steel flip-up chute designed to spread salt in environments with high humidity, and a tarp kit to help keep spreading materials dry.

StrikeSmart™ controller comes standard with all IceStriker 2000-3300 SSA/SSC spreaders, providing users the unmatched ability to either manually set a fixed auger/chain speed or have the material spreading rate automatically adjusted according to

vehicle speed.

For maximum control and observation of an equipment fleet, all IceStriker spreaders come standard with Hilltip's exclusive HTrack™ tracking software.

Additional accessories include LED lighting, chute extension, and 15 cm or 31 cm stainless steel side extensions for more coverage.

Source: Hilltip Corp.

Victory Is Standard



The readers of the specialist magazine “Off Road” voted the Unimog “Off-Road Vehicle of the Year” again this year – the “Universal-Motorgerät” won in the special vehicles category for the 17th time in a row. The Unimog is highly popular with globetrotters as a basic vehicle for travelling on and off paved roads, and in its lower-weight version can be driven with a passenger car driver’s licence.

Source: Daimler AG

Goodyear Expands RH-4A+ Tire Lineup

The Goodyear Tire & Rubber Company announces a new size, 40.00R57, to the Goodyear RH-4A+ tire lineup. Initially launched last fall, the RH-4A+ is engineered to deliver a lower operating cost per hour and higher productivity in hard rock underfoot conditions.

“The 40.00R57 has become Goodyear’s dominant fitment on 200-ton trucks, such as the Caterpillar 789. With a higher TKPH and load carrying capacity, the new Goodyear RH-4A+ tire size is a great option for customers who have converted their 789 fleets to this larger tire,” said Eric Matson, Global OTR field engineering manager.

The Goodyear RH-4A+ is now available in sizes 40.00R57, 59/80R63, 46/90R57 and 27.00R49, in customized casing constructions and is made with Goodyear’s proprietary tread compounds.

Source: The Goodyear Tire & Rubber Company



Road Repair Contractors Achieve Less Maintenance with Road Widener’s FH-R Attachment

Road Widener LLC offers the patented FH-R shouldering and side paver attachment. It is used to precisely dispense topsoil, gravel, asphalt, limestone and more on roadways and shoulders – all with an attachment compatible with common machines that contractors already own. This offers road repair contractors unbeatable versatility and profitability. The remote-controlled attachment easily connects to most skid steers, compact track loaders, road graders and wheel loaders, operating off the host machine’s engine and hydraulics. No engine or transmission to maintain reduces maintenance by 90% over self-propelled machines.

“The FH-R cuts out jobsite clutter and enhances efficiency by eliminating extra machines and reducing the multi-step process down to just 2 passes, dispensing and compacting,” said Lynn Marsh, Road Widener president. “Contractors will get a high-quality, profitable and efficient solu-



tion for their business that makes for an unrivaled total cost of ownership.”

The FH-R is available in left, right or dual dispensing configurations to take on any roadway. The attachment streamlines tasks including backfilling, road widening, road shoulder repairs, remediation and aggregate placement.

The material is poured into the hopper at the top of the FH-R and then precisely dispensed via remote control in adjustable

lay down widths from 0.3 to 1.8 m. The attachment dispenses up to 18 t of material in under 10 minutes without the need for any additional scraping or sweeping.

The FH-R works with standard and high flow hydraulics and has only 5 grease fittings to maintain. It is available with an optional universal mounting plate to ensure smooth compatibility and connection.

Source: Road Widener LLC



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Sandvik and Steelwrist Announce Cooperation for Open-S Work Tool Adaptors for Rammer Hammers

Sandvik and Steelwrist have entered into a cooperation for full automatic work tool adaptors for Rammer hydraulic hammers. As the global demand for fully automatic coupler systems is rapidly increasing, Sandvik will start offering Steelwrist SQ-type adaptor plates directly from the factory during Q3 2021. The deliveries from Sandvik will be compliant with the global Open-S standard.

Sandvik is a world-leading supplier of equipment and tools, service and technical solutions for the mining industry and rock excavation within the construction industry. Sandvik offers a complete range of demolition tools under the Rammer brand for carriers in the 0.6 to 120 t operating weight class.

“Rammer hammers are known for reliability, so we want to ensure best possible performance also when using fully automatic quick couplers. For that reason, we want to offer SQ system adapter kits

engineered to fit our hammers perfectly. Together with Steelwrist we will make sure that the use of Rammer hammers is even more effective,” said Jari Paajanen, product line manager at Sandvik Rock Processing Solutions.

Steelwrist SQ Auto Connection System is appreciated by customers mainly for the increased safety and ability to change hydraulic powered work tools in seconds without leaving the cabin. Steelwrist SQ products follow the global Open-S industrial standard for full automatic couplers.

“Steelwrist SQ products together with Rammer hydraulic hammers create a perfect combination. Our QPlus technology enables higher hydraulic flows with less pressure drops than other systems on the market. Steelwrist and Sandvik product benefits combined together will



surely be appreciated by our customers,” said Toni Ylitalo, SQ Product line responsible at Steelwrist.

Source: Steelwrist AB, Sandvik Rock Processing Solutions, Attachment Tools

HammerHead Next-Generation Bluelight LED Lining System

HammerHead® Trenchless, a division of the The Toro Company, has released its newly redesigned Bluelight LED cured-in-place pipe (CIPP) lining system. It features user-friendly enhancements and expanded capabilities making it an ideal solution for the rehabilitation of laterals and small sewer pipes 76 mm to 254 mm in diameter.

The innovative Bluelight technology empowers CIPP lining professionals by alleviating the time pressures of other CIPP systems and curing methods. The specially formulated single-part resin only cures under light in the “blue” wavelength, giving installers significantly longer working time between liner wet-out and curing. Once installed, the automated curing system pulls the LED light head through the liner, curing the resin almost instantly – as fast

as 1.6 m/min.

“The original Bluelight system was, and still is, a game-changer in lateral rehab,” said Josh Hood, Sr. product manager at HammerHead Trenchless. “But our new design incorporates feedback from installers around the world to make it even more user-friendly and efficient to maximize productivity on every lining job.”

In 2018, HammerHead Trenchless announced its strategic partnership with Per Aarsleff Pipe Technology of Aarhus, Denmark, to be the exclusive provider of the Bluelight LED system outside of Europe and Russia. The HammerHead Bluelight system has been sold and serviced in North America since 2019. The new product will be manufactured at the HammerHead facility in Lake Mills, Wisconsin.



The new Bluelight system will be available for delivery in the fall of 2021.

Source: HammerHead Trenchless

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The Media Kit is available on InfraStructures’ website at www.infrastructures.com



Trimble and Doosan Announce Factory-Installed Machine Control Solution for Doosan Crawler Excavators

Trimble and Doosan Infracore North America recently announced that Doosan will offer the Trimble® Earthworks Grade Control Platform for Excavators as an optional factory-installed machine control solution for the North American market. Trimble Earthworks is a grade control solution designed to make grading more accurate, faster and easier in a range of applications, including residential and commercial sites, trenches, embankments, ditches and finished slope work.

Doosan will offer a 2D machine control factory-installed option that includes a 10” Android™ tablet display running the Trimble Earthworks software application. This option includes rugged Trimble hardware, designed and tested for the harsh conditions found on construction sites.

With Trimble Earthworks, contractors can now take advantage of integrated 2D grade control with automatics for excavators, allowing operators to create smooth,



flat or sloped surfaces more easily. When the excavator is placed in Auto mode, the operator controls the stick, and Trimble Earthworks controls the boom and bucket to stay on grade, reducing overcut and increasing production. By automating excavator operation, Trimble Earthworks allows operators to achieve grade consistently, with high accuracy and in less time. Customers should check with their local

Doosan equipment dealer and confirm if this option is available for their preferred model.

Contractors can work with their Doosan dealer to upgrade their 2D system to 3D through a local SITECH® dealer.

Source: Doosan Infracore North America, LLC

VDM Metals Adopts Henkel’s Nitric Acid-Free Pickling Process

VDM Metals Group, a German manufacturer of nickel alloys and special stainless steels, has adopted Henkel’s Cleanox acid-free Bonderite C-CP pickling process for dedicated wire products. The Bonderite C-CP product range answers market requirements within the metals industry to significantly increase the sustainability value of their production processes.

The Cleanox technology has already been in use for decades in multiple industries globally, including wires, tubes, coils, bars, and components. It is suitable for all stainless steel grades, and can be used in multiple applications, including immersion, spray, continuous line, or batch solution processes. VDM Metals is using Cleanox technology to pickle rolled wire of high-alloyed materials in order to ensure the compliance with nitrogen oxide (NO) limits.

High-alloyed nickel chromium alloys are commonly used in multiple industries, including the automotive, petrochemical, aviation, power generation & electrical,



chemical and appliances sectors. But there are challenges around common mixed acid pickling systems, due to the use of nitric acid. These cleaning techniques typically result in vast volumes of nitrate ions being discharged, during the intermediate and final rinsing stages. Nitrate and nitrite pollution is subject to legislative regulation and needs to be complied with via waste water treatment.

Henkel began offering its range of

Bonderite C-CP technologies in the 1990s, to address the growing market demand for nitric acid-free pickling technologies for stainless steel. Since the initial introduction, legislation governing this space has tightened in the EU. VDM Metals is one of the first manufacturers of high-alloyed non-iron metals to adopt the process in their production.

Source: Henkel AG & Co. KGaA

Weber Offers Heavy-Duty Soil Compactors With Gasoline Engines

Hand-guided soil compactors have customarily been powered by combustion engines. Renowned engine manufacturers offer products that match this configuration and have recently managed to cut exhaust emissions dramatically. One example is Honda, who claim to have cut the emissions of their gasoline engines in half over the last 10 years. All the more reason for Weber MT to complement their extensive range of diesel-powered vibratory plates with a gasoline option.

To keep their weight at a minimum, forward-traveling vibratory plates have long been equipped with gasoline engines. However, gasoline engines also offer a number of benefits when used in hand-guided soil compactors of greater size and weight.

"Compared to diesel machines, they are substantially cheaper to buy and do not require you to have a discussion about harmful soot particles" explained Mike

Homrighausen, export sales director at Weber MT. "We rely on the highly advanced and tried-and-tested gas engines made by Honda. We benefit from their comparatively simple maintenance and Honda's exceptional service network."

Weber MT's selection of soil compactors with infinitely variable forward and reverse travel plus gasoline engine has grown extensively and now ranges from the CR 1 Hd, boasting an operating weight of just over 90 kg, to the new CR 9 Hd E, which weighs in at 670 kg and delivers 100 kN of centrifugal force, equipped with Honda's GX 630 gasoline engine. Its 75 cm



Mike Homrighausen puts his trust in Honda's highly advanced and established engine technology.

working width can be extended to 90 cm, and it has an operating speed of up to 28 m/min. The CR 9 Hd CCD version also includes the COMPATROL compaction control system.

Source: Weber Maschinentechnik GmbH

High Performance in Every Sense of the Word

Strenx® performance steel will allow for the design of strong, light and safe mobile cranes, work platforms, loader cranes and other lifting equipment that reaches higher and can take higher payloads.

Lifting applications pose tough design challenges. To increase reach and payload without making the vehicle too heavy for roads and regulations, a strong steel that is used in thinner dimensions is the solution.

Safety is naturally of the highest priority in lifting. It puts high demands on the steel used.

Strenx® is a high-strength structural steel that lives up to the highest expectations thanks to its core properties. Strenx® is an exceptionally consistent material. It has a stable chemistry with a low amount of inclusions, tightly controlled dimensions, reliable mechanical properties and predictable workshop performance.

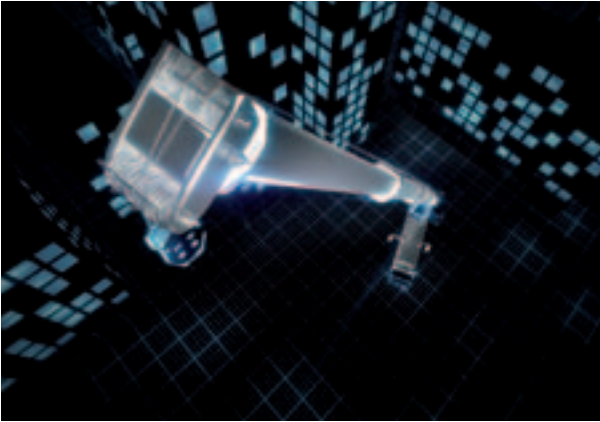
The consistency of Strenx® is also demonstrated by the unique product guarantees for thickness, flatness and bending

performance. With tight and guaranteed thickness tolerances, weight calculations become more accurate and the safety margins more exact. It is also flatter than common standards. A flat steel is easier to cut with laser or other cutting techniques, and it does not give any problems with the welding gap. Not to mention that a flat surface looks better when painted or used for images and marketing. The bending guarantees for Strenx® are a result of the narrow thickness tolerances and the consistent yield strength. Every plate behaves the same way, simplifying the bending process and ensuring a repeatable result.

Strenx® 1100 Plus is a new grade in the Strenx® product range with unique weld properties. Strength, elongation and impact toughness of the welded area

fulfil minimum guarantees of the base material. This gives important engineering advantages. The design can be based on the same minimum static strength in the entire application, depending on applicable design rules. Strenx® 1100 Plus is perfect for making lifting equipment that is stronger, lighter, reach higher and can take heavier loads.

Source: SSAB



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Stoelting Partners with Ransohoff to Expands its Parts Washer Business

Stoelting Cleaning Equipment, a division of The Vollrath Company LLC, recently announced a new partnership with Ransohoff, a division of Cleaning Technologies Group LLC, to manufacture and provide cleaning solutions for Stoelting's parts washer business.

"Ransohoff offers us the opportunity to be part of a growing global organization with products and capabilities that are a natural fit with Stoelting parts washers," said Jean Horvath, vice president of Vollrath's Custom & Specialty Products division.

The Stoelting product lines to be handled by Ransohoff include Trek, AquaCell, AquaForce®, OmniForce, OmniJet®, VersaForce®, RotaForce, and Mini Parts Washers.

Stoelting will continue to provide service parts and technical service support for Stoelting equipment and customers. It will also continue to sell, design and manufacture Stoelting ultrasonic cleaning equipment with the Lewis product line.

Source: The Vollrath Company

InfraStructures English Edition September 2021 – page 20

InfraStructures English Edition September 2021 – page 21

LineWise TLL-500A Series 3 Triple Line Lifter for Subtransmission Applications

LineWise has introduced its TLL-500A Series 3 Triple Line Lifter for subtransmission applications. Designed to support 3 phases of energized conductors between 34.5 kV and 72.5 kV, the product features all-new hydraulic articulation, allowing operators to easily rotate phases up to 90° from horizontal to vertical orientation while servicing subtransmission lines. It also includes hydraulic cylinders to extend and retract the outer phases.

The TLL-500A Series 3 has been specifically designed to work with large digger derrick trucks, such as those provided by Terex, Elliott and Altec. It includes 3 lightweight polymer insulators that are rated for 34.5 kV or 72.5 kV to hold the phases. The product has a maximum load capacity of 215 kg per phase.

Exclusive to the new Series 3, the phases can be hydraulically rotated from a horizontal to vertical orientation. The



outside phases can also be extended to a maximum overall span of 4.8 m or retracted to a minimum overall span of 2.4 m. This feature allows the 3 phases to be positioned anywhere from 1.2 m to 2.4 m apart. Wear pads are installed within the assembly to maximize service life. A radio remote allows operators to control all hydraulic functions while working in a bucket.

The hydraulic power unit comes

standard with the Series 3. It features a 7.5-hp gasoline engine with electric start and provides 2,600 psi at 15.1 l/min. A convenient transportation skid with fork pockets comes standard for easily loading, transporting and storing the unit. The transportation skid also makes mounting the TLL-500A Series 3 to the digger derrick or boom truck crane much easier.

Available add-on options include fiberglass insulators and a crane adapter to

“The Beast” Carries Out All the Work

The Unimog U 430 is an indispensable member of the team at Bremer Baumdienst in northern Germany.

“The Beast” is the nickname which Maximilian Salzer has attributed to the Unimog U 430 he recently acquired. The managing director of the tree management specialist Bremer Baumdienst (BBD) and his team carry out all the work needed for year-round management and care of green areas all over northern Germany. In particular, this includes protecting older trees which require particular attention during the hot summer months as a result of climate change.

Operations concerning fallen trees near roads and railways, as well as dealing with storm damage are regular occurrences in northern Germany as a result of the often strong winds which the region experiences. The off-roading capabilities of the Unimog are a great advantage in such cases as the areas concerned are regularly off the beaten track.

“We drive a lot off-road,” explained Mr. Salzer. “Our Unimog is perfectly suited



to that type of application thanks to its off-roading capabilities, plus even with the large attachments and bodies we use, it remains stable when driving in such conditions.”

These aspects are among the most important advantages of the Unimog when it comes to the high requirements on operational and work safety when felling trees or cutting overhead clearances along

the Deutsche Bahn rail network in northern Germany.

Felling, moving and cutting trees, as well as transporting waste wood are all possible in a single work process with “The Beast”. Once reduced to a size suitable for transport, the wood can be moved on the tipper body behind the cab. Branches are picked up with the grabber arm and pushed into the shredder. If necessary, this

Enabling Mines and Quarries to Haul More With Less

allow crews to use this product with boom truck cranes.

In addition to the TLL-500A Series 3, LineWise also offers a Series 1 and Series 2 to meet the needs and budgets of various operations. The Series 1 features manual pin adjustment of the insulator sliders in 76 mm increments. The Series 2 offers up to 762 mm of insulator travel via lead screw assembly, allowing linemen to extend and retract phases by using an impact driver.

LineWise is a division of Diversified Products. The company designs, engineers and manufactures a full line of utility products, including line lifters, insulated work platforms, phase lifters, transmission temporary conductor supports and the Buddy Bushing transmission hardware reinforcement system.

Source: Diversified Product Development

Metso Outotec’s unique Truck Body is designed to maximize the availability and performance of haul trucks while reducing the costs for service and maintenance. The ground-breaking innovation that combines the benefits of rubber and a high-strength steel structure was launched in 2019 and is well-received by customers. Recently, one of the world’s largest copper mines decided to invest in a Metso Outotec Truck Body.

It is the first order globally for a truck with loading capacity of 360 t and the first in the Americas. The customer is looking to increase payload of its trucks while also reducing maintenance.

“We will supply a Truck Body with lower weight and major volume capacity compared to the OEM body. We can prove with objective calculation the benefits the customer is going to receive, such as fuel savings, less maintenance, more uptime, the possibility to increase payload on each hauling, as well as improving the truck body’s life. All these benefits are answering to growing demand for environmental efficiency,” said Alfredo Rios, business support manager, Loading and Hauling, Americas, Metso Outotec.

Source: Metso Outotec Corporation



CZM Introduces EK260LS to Fleet

can also be operated from a distance using the remote control.

Excellent off-roading characteristics, versatility and compact dimensions ensure efficient work processes whilst also enabling safe felling operations and minimally invasive tree care. This has a positive effect on trees both in cities and off the beaten track – not only does the highly maneuverable Unimog exert a low pressure on the ground, it also allows the team to get very close to the respective site of operation. As a result, the ground only suffers minimal damage during felling and daily tree maintenance work.

Maximilian Salzer studied forestry in Göttingen and is a state-approved agricultural specialist for tree surgery and maintenance. He and his team have set themselves the aim of caring for and maintaining “green lungs” using ecologically and economically optimized work methods.

Source: Daimler AG

CZM Foundation Equipment recently introduced the EK260LS to its fleet. This is the 4th model in the Long Stroke series.

The EK260LS is mounted on a Caterpillar 352 Next Gen chassis powered by a 432 hp Tier 4 final C9.1 ACERT engine, with extendable crawlers for 360° stability. It has an operation weight of 90,900 kg and a transport weight of 63,500 kg. The machine features a torque output of 284 kNm. It is a cable crowd machine with 18.6 m of stroke. Applications can easily be switched between Kelly Bar, Segmented Casing, CFA, Displacement Piles and Soil Mixing.

Since 1976, CZM has been a leader in the foundation drilling industry, offering a comprehensive line of machines engineered for every foundation application. All products are made in the U.S. using Caterpillar bases and designed by a team of highly skilled engineers to be the most productive and reliable in the market.

The American division of CZM Corporation has become its main operation center and headquarters and is a leading foundation equipment manufacturer in North and South America.

Source: CZM Foundation Equipment



Lifting Job in the Swiss Alps

Anyone who has driven their car on a narrow and steep mountain road knows that this requires undivided focus and attention. So it should come as no surprise that doing the same but with a 5-axis crane



is a one-of-a-kind scenario that comes with extreme challenges for both operator and machine.

“That’s why we decided to use our Demag AC 160-5 for this job. With its extremely compact design and outstanding maneuverability, it was perfectly suited for

the mission – both in terms of getting to the dam and of taking care of the corresponding work,” said Josef Waser, of Fanger Kran AG. “In addition, the crane had the power required to carry out the lifts at the Zervreila concrete dam.”

Before that, however, the AC 160-5 had to be prepared for the trip to the jobsite.

In order to reduce the weight to less than 60 t, the counterweight and other accessories were loaded onto 2 trucks that made the journey that came with unique challenges for the Fanger team. The route was not only peppered with tight curve radii, but also with tunnels that demanded extreme precision.

The team set up the AC 160-5 despite the extremely tight space constraints.



In order to lower the components – some of which weighed up to 7.8 t – 130 m down, the crane was equipped with a 32.9 m main boom and 46 t of counterweight.

Everything went smoothly with the job, so that the crane operator was able to complete all the lifts by himself in a single day.

Zervreilasee is a reservoir located southwest of Vals in the canton of Graubünden, Switzerland. The lake has a surface area of 1.6 km² and an elevation of 1,862 m. Completed in 1957, the dam is 151 m high.

Source: Tadano Ltd.

Konecranes Wins First Customer for New Diesel-to-Hybrid Conversion Technology

Konecranes has won a contract with South Carolina Ports to supply 12 Rubber Tire Gantry (RTG) retrofit hybrid power packs, a milestone contract for new technology that offers significant carbon emission reductions and lower operating costs – without compromising performance.

The U.S. Environmental Protection Agency (EPA) approved Konecranes’ new hybrid technology in April 2021 after a comprehensive testing protocol conducted by West Virginia University (WVU) at South Carolina Ports’ Wando Welch Terminal.

The approval means that South Carolina Ports, and other U.S. ports, are assured of the efficacy and sustainability of Konecranes’ technology.

The conversion of the 12 20-year-old Charleston-based Konecranes diesel RTG cranes will begin in January 2022. The contract complements Konecranes’ momentum in the region, with over 30 new hybrid RTGs delivered to ports across



America since 2020.

“Anyone can add a battery to an engine and call it ‘hybrid’, but because we manufacture our own drive and control systems, we are the only company that can conduct a full upgrade on a turnkey basis without compromising crane performance. This agreement shows the global strength of Konecranes, involving engineers in the U.S. and Finland, including our RTG pioneer Jorma Merimaa, and the results have

been sensational,” said Scott Lane, vice president of Konecranes’ US Port Services.

The hybrid power pack retrofit is part of Konecranes’ suite of Ecolifting™ products that have been engineered from the ground up to deliver dramatically reduced carbon exhaust emissions. Ecolifting™ in turn is part of the company’s overall vision of a low-carbon, sustainable future.

Source: Konecranes Inc.



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2008 Terex RS70100 on Sterling



2012 ManiTex 5084S on Peterbilt



2010 Terex RT780 80 ton

DICA Announces Plans for The Utility Expo

DICA will showcase products for utility contractors from its Outrigger and Crane Pad, Ground Protection, Cribbing and Blocking, and Rigging product lines during The Utility Expo, September 28-30, 2021 in Louisville, Kentucky.

“DICA products help contractors get ready to get to work, and have long been a staple of equipment stocked on utility trucks,” said Kris Koberg, CEO of DICA.

Among the company’s newest products, which will be featured at the show, are FiberTech Outrigger Pads, ProStack SlotLock Cribbing Blocks, and LiftGuard Sling Protectors.

DICA Outrigger Pads provide unbreakable strength, safe handling, and easy setup for use with aerial lifts, digger derricks and mobile cranes. FiberTech Outrigger Pads are an ideal solution when extra rigidity is needed and weight is a concern.

ProStack Cribbing Blocks are designed to provide height in situations where you



need to crib up. Slot Lock Cribbing Blocks have a rated capacity of 45,000 kg, and are suitable for use with aerial devices, digger derricks, concrete pumpers and smaller cranes.

LiftGuard Sling Protectors prevent damage to slings caused by contact with abrasive edges, corners, or protrusions from loads being lifted. They also keep the

sling away from other significant contact points during lifting operations.

These, and other DICA products will be in use at many OEM equipment displays, including Terex, Altec, Dur-A-Lift, Elliott, Hiab, Manitowoc, QMC, Ring Power, Spiradrill, and TIME/Versalift equipment.

Source: DICA Outriggers Pads

A World First: the Innovative BAUER Cube System

As part of its “Bau Erleben” days at its headquarters in Schrobenhausen, Germany, BAUER Maschinen GmbH presented a true global innovation that will open up entirely new opportunities for the future construction of diaphragm walls: the BAUER Cube System.

This innovative cutting system was developed in collaboration with a strategic partner, the Belgian tunnel construction expert Denys.

“It is designed as an electrically-powered cutting system which builds on a great deal of proven expertise from Bauer but features an entirely new construction,” explained Dr. Ruediger Kaub, managing director of BAUER Maschinen GmbH.

The entire system was developed precisely in container dimensions. This means it can be used without any problem in microtunnels with small diameters of just 3.8 m which makes it ideal when working in a densely populated area.

The impact of construction sites on traf-

fic, businesses and residents are minimized because the Cube System only requires a comparatively small access point to an



existing microtunnel or auxiliary tunnel. The actual work is carried out underground, essentially invisibly. The electric drive system also considerably reduces the ecological disturbance of a cutting site.

When it comes to logistics, the system’s compact dimensions are a major advantage. The BAUER Cube System is as easily transported to its place of deployment as

conventional containers.

The first successful tests of the prototype under the most realistic conditions

possible have already been carried out on the Bauer plant grounds in Aresing, near the company headquarters in Schrobenhausen, Germany. This test phase will continue for the next 4 to 6 months, which in principle means that an anticipated practical application will be possible towards the end of 2021.

Source: Bauer Maschinen GmbH

Even more power for the SCHEUERLE SPMT PowerHoss

SCHEUERLE, a subsidiary of the Transporter Industry International Group (TII Group), has expanded its SPMT PowerHoss series with the addition of a 6-axle version featuring a width of 3,000 mm. These transport modules now offer up to 330 t of payload per unit and can also be used in a vehicle combination to comfortably handle the most difficult tasks in intralogistics.

Up to now, SCHEUERLE has always offered SPMT PowerHoss modules with 2 and 4 axles; however, a version with 6 axles now complements the series. While the 2 and 4-axle versions offer payloads of up to 85 and 174.9 t per module respectively, the 6-axle vehicle accommodates up to 330 t of payload. In addition, individual modules can be operated in an uncomplicated manner according to the plug-and-play principle either mechanically or electronically in a loose coupling mode as well as being coupled to one another both laterally or longitudinally in order to meet even higher payload requirements. Thus, a vehicle combination of 4 SPMT PowerHoss 330s is able to move loads with a unit weight of up to 1,320 t.

Due to the PPU drive unit (Power Pack Unit) integrated into the transport platform, the SPMT PowerHoss can be used immediately whilst the operator only requires a short briefing. Through its width of 3,000 mm, PowerHoss 330 modules also offer 40% more stability than comparable container-wide solutions from other manufacturers.

The highly maneuverable all-rounder for intralogistic operations is not only easy



and safe to operate but it can also be used on a wide range of surfaces both outdoors and in production halls regardless whether the road surface is made of gravel, asphalt, concrete or similar materials. For this reason and due to the high degree of axle compensation in the pendulum axle bogie unit, reloading is not required when transporting from a building into open spaces. This makes the self-propelled SPMT PowerHoss units the specialists for all transport tasks in intralogistics. They are designed for use in shipyards, construction industry, power plants, mining and steel industries as well as in the petrochemical sector.

The Transporter Industry International Group (TII Group) belongs to the Rettenmaier entrepreneurial family and is a

globally active manufacturer of heavy-duty and special vehicles. It is comprised of the Scheuerle, Nicolas, Kamag and TIIGER brands.

Transport assignments include construction machinery, wind turbine facilities, ships, antennas as well as entire factory plant. The TII Group holds the current world record of over 17,000 t for transporting extremely heavy loads on vehicles. The TII Group focuses on product quality and innovations for the future of heavy-duty transportation mobility. In addition to locations in Germany, France and India, the group has a global sales and service organization.

Source: Transporter Industry International Group

Appointments

Schneider Electric Canada, together with the France Canada Chamber of Commerce Ontario (FCCCO) is proud to announce **Adrian Thomas** as the newly elected president of the **European Union Chamber of Commerce in Canada** (EUCCAN). Mr. Thomas, who currently serves as the country president of Schneider Electric Canada is entrusted with continuing the growth of EUCCAN by reinforcing transatlantic cooperation between the European and Canadian business communities.

Adrian Thomas brings over 20-years of experience in the electrical and automation industry in North America. He joined Schneider Electric Canada in 2016 as the leader of the Building segment, and has since held multiple leadership roles before his appointment to Canada Country President in 2020.

In addition to working with EUCCAN, Schneider Electric is a founding member of the FCCCO since its inception.

Source: Schneider Electric Canada Inc.



Maureen Amari has been promoted to vice president of operations within **RT ECP** (the Environmental and Construction Professional Practice of RT Specialty). Ms. Amari was the first team member to join the RT ECP team in 2005. Starting as an account and office manager, she now supervises the organization's training efforts and day-to-day operations, while also serving RT ECP's resident specialist on process and surplus lines compliance issues.

"Maureen has been with us since the beginning," said Jefferey S. Lejfer, president, RT Specialty's Hamilton, New Jersey, office. "She has grown alongside our team and played a valued role in our growth from a niche player to the market's premier resource for environmental and construction-related insurance solutions. Her dedication to this team and our clients has been a driving force behind our success for the past 16 years."

Maureen Amari joined the RT ECP team with more than 25 years of commercial and personal insurance lines experience. In addition to serving as an assistant vice president at Aon for 15 years, she also worked at Prudential in the UK for 3 years and independent insurance firms located in New Jersey for another 10.

RT Environmental and Construction Professional (RT ECP) is a part of the RT Specialty division of RSG Specialty, LLC, a Delaware limited liability company based in Illinois. RSG Specialty, LLC, is a subsidiary of Ryan Specialty Group, LLC (RSG). It provides wholesale insurance brokerage and other services to agents and brokers.

Source: RT Environmental & Construction Professional Practice



On October 1st, 2020, **Cargotec Corporation** and **Konecranes Plc** announced a plan to combine the 2 companies through a merger, subject to regulatory and other approvals.

The boards of directors of Cargotec and Konecranes have agreed to select **Mika Vehviläinen** as the president and CEO of the future company. The appointment of Mr. Vehviläinen will become effective upon completion of the merger which is currently expected to take place by the end of H1/2022. Until completion, both companies will operate fully separately and independently.

Mika Vehviläinen has served as Cargotec's CEO since 2013. He is also a member of the board of directors of Danfoss A/S. Prior to joining Cargotec, he acted as president and CEO of Finnair Plc between 2010 and 2013, as COO for Nokia Siemens Networks between 2007 and 2009, and in various positions with Nokia between 1991 and 2007. Further, Mr. Vehviläinen has acted as vice chairman of the board of directors of Elisa Corporation between 2014 and 2018 (member between 2012 and 2014) and of Vacon Plc between 2010 and 2014 (member during 2009). Mr. Vehviläinen holds a Master of Science degree in Economics.

Source: Cargotec Corporation



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Multihog Delivers a Fleet of 18 Tractors to the City of Laval With the Help of Enterprise Ireland

Multihog recently delivered a fleet of 18 compact multi-purpose tractors to the City of Laval, Québec. The maintenance vehicles will be used for sidewalk snow removal in the winter and boom mowing in the summer season.

The contract, worth \$2.6 million, was brokered by Quebec's Multihog dealer, Machineries Forget. Another supporter of Multihog's growth and success in the Canadian market is Enterprise Ireland (EI), Ireland's trade and innovation agency.

"We are delighted to assist Multihog to provide top-quality multi-purpose machines all across the country to municipalities such as Granby and Laval in the province of Quebec. We are very proud to support them in this important work," declared Éve Chartrand-Dandurand, senior vice president Industrial Technologies at EI Canada.

The first municipality in the province to opt for Multihog's multi-purpose vehicles was Granby, a town located east of Montreal. Having seen the Multihog for the first time in 2018 at the APOM municipal trade show, they purchased their first Multihog, an MXC model, in 2019. Today they operate 3 Multihog units in their public works maintenance fleet. The versatile tractors are fitted with a variety of attachments including snow plows, drop spreaders, and a snow blower to assist Granby with sidewalk snow removal. In the summer season, they are fitted with boom mowers for verge cutting.

Francis Lacasse, Public Works Foreman at City of Granby, is impressed with the units.

"Since the purchase of our first Multihog in 2019, they have proven to be a valuable asset in our machinery fleet. I am quite cautious with our equipment budget and buying a multi-purpose machine which would operate all year was a top priority for my department," he said.

"We were thrilled to supply such a large

fleet of vehicles to City of Laval, and we sincerely thank them for their trust in us. Since 2019, Machineries Forget has hit

maintenance vehicle in the region since 2019. Laval is the latest municipality in Québec to recognize the versatility of the



Francis Lacasse, public works foreman for the City of Granby, is impressed with the machines. "Since purchasing our first Multihog in 2019, they have proven to be a valuable asset in our machinery fleet. I'm pretty conservative with our equipment budget and purchasing a versatile machine that would work year-round was a top priority for my department."

the ground running in terms of promoting our products," said Tony Duff, Multihog's sales director. "We are lucky to have such a strong and willing partner, and I have no doubt that Multihog's presence in Québec will continue to grow with Mathieu and the team behind it.

"We were delighted to deliver this fleet of Multihogs to Laval earlier in the year, and we are a very proud representative for the brand in Québec. Our growing list of municipal and facilities maintenance customers is testament to the quality of Multihog's innovative range, and the scope of maintenance tasks it can cover," said Mathieu Forget, sales director of Machineries Forget. "We look forward to a long and successful partnership with them, and are excited to promote their newest offering, the CV sweeper, in the region."

A relatively new partner, Machineries Forget is based in Mont-Tremblant, Québec, and has been promoting the Irish

Multihog and follows a number of deliveries in the region, to customers including City of Granby, City of Saint-Raymond, Municipality of Saint-Hippolyte, Soudure Dufer and Signature sur le Saint-Laurent.

Originally designed as a machine for cutting grass on slopes, the Multihog has evolved into a market-leading range of multi-purpose sweepers and tractors used by airports, municipalities, and contractors around the world.

Enterprise Ireland partners with entrepreneurs, Irish businesses, and the research and investment communities to develop Ireland's international trade, innovation, leadership, and competitiveness.

Source: Multihog Limited.

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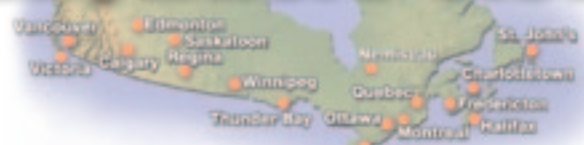
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The Utility Expo
September 28-30, 2021
Louisville, KY USA

The ARA Show
October 17-20, 2021
Las Vegas, NV USA

Intermat INDIA
October 18-20, 2021
Mumbai, India

inter airport europe
November 9-12, 2021
Munich, Germany

SMOPYC 2021
November 17-20, 2021
Zaragoza, Spain

bauma CONEXPO INDIA
Rescheduled to 2022
Greater Noida/Delhi, India

Work Truck Show
March 8-11, 2022
Indianapolis, IN USA

World of Asphalt
March 29-31, 2022
Nashville, TN USA

National Heavy Equipment Show
March 31 - April 1, 2022
Toronto, ON Canada

Atlantic Heavy Equipment Show
April 13-14, 2022
Moncton, NB Canada

IFAT
May 30 - June 3, 2022
Munich, Germany

AORS Municipal Public Works Trade Show
June 1-2, 2022
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June 2-4, 2022
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