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A Brief Word...

The weather is as varied and unpredictable as an election campaign. With snow storms in the west and record heat in the east having a reliable source to plan your work is all you really want, for either.

It will soon officially be Winter Maintenance Season, so many are scrambling to install and test equipment and accessories in case Old Man Winter makes an early appearance.

Our editorial staff are not long back from ICUEE where record temps and attendance gave visitors much to take in. Utility and allied trades need to be planning a wrap up and preparing for urgent services to get through the winter. Vendors were on hand to present solutions and advice for both. Read more in this issue.

The Thanksgiving to Halloween period will be busy and with a federal election and Brexit thrown in, trade and equipment pricing and availability may be seriously affected.

Canada's economy has been stagnating and October may indicate how 2020 will pan out. You need to prepare, and InfraStructures will do its part to help you.

So, as you face yet another turkey sandwich, try something fresh from inside our pages.



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On the cover: A crew from Metz GmbH tear down a furniture that has been left vacant for many years in Regensburg, Germany.

A SENNEBOGEN 830 R-HDD E Series material handler and a variety of attachments is used to bring down and extract the material, sort it and load it for on-site crushing.

ASSOCIATION OF CONSULTING ENGINEERING COMPANIES - CANADA AND MEMBERS HONORED AT INTERNATIONAL AWARDS GALA

It was a spectacular night for the Canadian consulting engineering industry as the Association of Consulting Engineering Companies - Canada (ACEC-Canada) and 3 member firms – Kerr Wood Leidal, Stantec, and Tetra Tech Canada Inc. – were honoured on September 9th at the 2019

FIDIC Awards Ceremony & Gala Dinner in Mexico City.

The FIDIC (International Federation of Consulting Engineers) annual conference and awards gala attracts roughly 800 leaders from the world's most successful and influential engineering companies. The conference serves as a platform for global colleagues and stakeholders to discuss the challenges facing the future of the industry, debate key infrastructure issues

and opportunities, and honor outstanding engineering projects from around the globe. This year FIDIC introduced a Member Association (MA) Excellence Awards to recognize, reward and highlight the achievements and successes of its international member associations and the work they do representing the global consulting engineering industry.

ACEC-Canada took home the award for the "Best advancement of a cause, advocacy campaign or event" for its #20DaysOfExcellence campaign. This annual campaign, which takes place following the Canadian Consulting Engineering (CCE) Awards, showcases the 20 CCE award-winning projects, selected for their innovation, complexity, and social and economic benefits. The CCE Awards represent the highest honors for excellence in consulting engineering in Canada and the winning projects deserve to be honored and recognized on a national and global scale. The #20DaysOfExcellence campaign was created to do just that and has experienced continued growth and success since its inception.

The FIDIC Project Awards recognize outstanding engineering projects by FIDIC member firms and help to publicize the work of consulting engineering firms and the contribution they make to society. The awards promote the use of international FIDIC best practices and resources to achieve quality projects that help develop economies and communities around the world.

ACEC-Canada member, Kerr Wood Leidal Associates Ltd. of Burnaby, British Columbia, was recognized with a FIDIC Award of Merit for their *Squamish Integrated Flood Hazard Management Plan* project. This ground-breaking, 3-year study to assess and mitigate an extensive range of overlapping flood hazards looked beyond traditional floodplain mapping to systematically consider the interplay of physical, economic, social, and environmental risks. The project was also a recipient of an Award of Excellence at last year's CCE Awards.

Vancouver area Stantec and Tetra Tech Canada Inc were honored for their *Inuvik Tuktoyaktuk Highway (ITH)* project with a FIDIC Award of Special Merit. This project was also an Award of Excellence recipient at the 2018 CCE Awards and received an additional Special Achievement Award,

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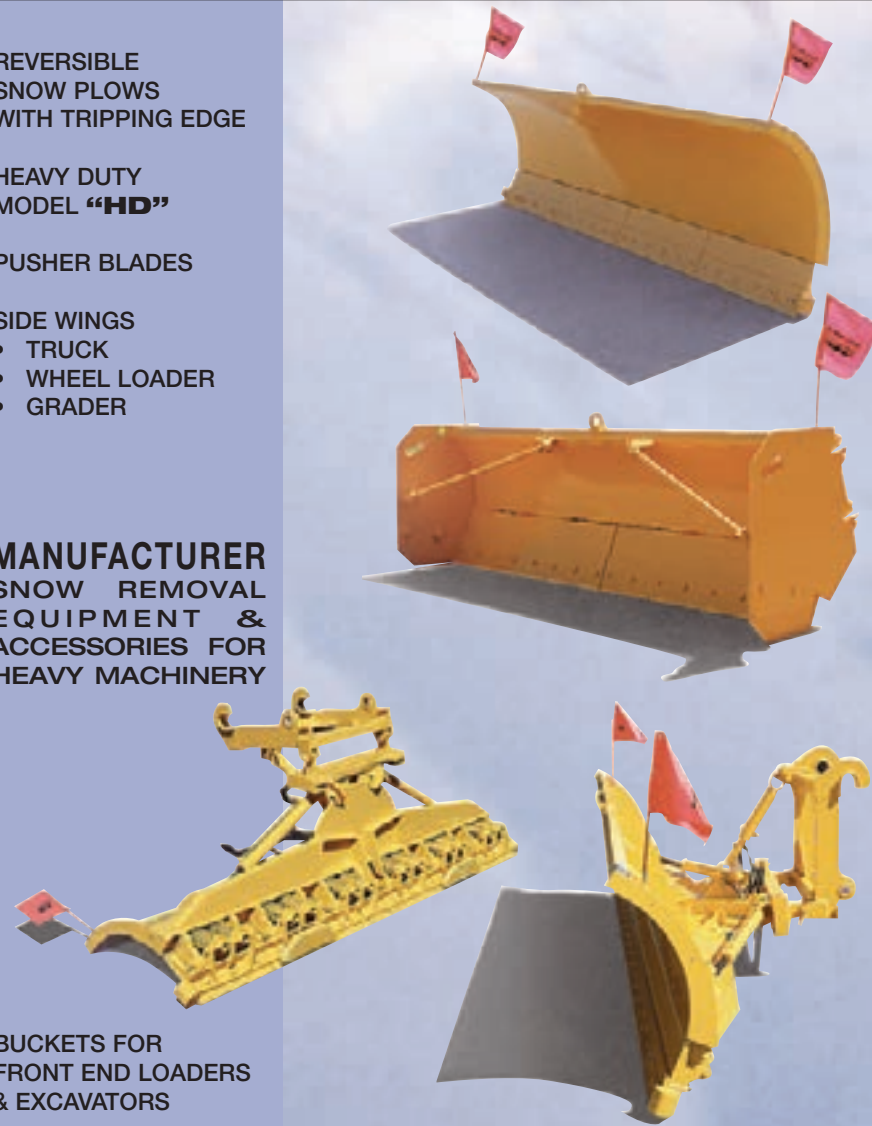
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the Engineering a Better Canada Award, for best showcasing how engineering enhances the social, economic or cultural quality of life of Canadians. The ITH is the first Canadian highway constructed on continuous permafrost, which posed unique challenges. The project distinguished itself not only for overcoming these challenges but for generating a partnership between 2 Indigenous contractors and design firms, resulting in a transfer of technology to the local community.

ACEC-Canada represents companies that provide professional engineering services to both public and private sector clients. These services include the planning, design and execution of all types of engineering projects, as well as providing independent advice and expertise in a wide range of engineering and engineering-related fields.

Source: Association of Consulting Engineering Companies - Canada

STELLEX ENTERS INTO AGREEMENT TO SELL MORBARK TO ALAMO GROUP

Stellex Capital Management recently announced that it has entered into an agreement to sell Morbark, LLC to Alamo Group. The sale includes all assets and operations of Morbark and its affiliate brands.

Founded in 1957 and based in Winn, Michigan, Morbark and its affiliate brands, Rayco, DENIS CIMAF, and Boxer Equipment, produce a full line of brush chippers, stump cutters, mini skid steers, forestry mulchers, aerial trimmers, whole tree and biomass chippers, flails, horizontal and tub grinders, sawmill equipment, material handling systems, and mulcher head attachments for excavators, backhoes, and skid steers.

"Together with Stellex, Morbark has achieved our strategic vision by greatly enhancing operations and implementing lean initiatives and best-in-class manufacturing practices that have resulted in new and improved redesigns, significant reductions in lead times, and improved delivery performance," said Dave Herr, CEO of Morbark. "We are grateful for our time with Stellex and look forward to the next chapter as part of Alamo, an ideal suitor given its operating philosophy that will allow us to maintain our brands, operations, and successful momentum while further enhancing various operational synergies and accelerating international growth."

Since Stellex's acquisition of Morbark in 2016, the Company has successfully completed 2 acquisitions to expand its product offerings and geographic presence. In October 2017, Morbark acquired Rayco Manufacturing, a manufacturer of stump cutters, crawler trucks, forestry mulchers, multi-tool carriers, and aerial trimmers, based in Wooster, Ohio. In December 2018, Morbark acquired DENIS CIMAF, a manufacturer of industrial brushcutters and mulcher heads based in Roxton Falls, Quebec. With these acquisitions and other strategic improvements, Morbark has increased its headcount by more than 200 employees and revenue has nearly doubled.

The acquisition, which is expected to close in the 4th quarter of 2019, is subject to a number of conditions, including the receipt of regulatory approvals and other pre-closing requirements. Upon completion of the transaction, Morbark will become part of Alamo's Industrial Division. Herr will continue in his role as Morbark CEO, and Morbark's day-to-day operations

will remain unchanged.

Source: Morbark, LLC

GENERAC MOBILE JOINS SOURCEWELL COOPERATIVE PURCHASING

With the customer in mind, Generac Mobile is now part of the Sourcewell cooperative purchasing. Sourcewell, formerly the National Joint Powers Alliance (NJPA), helps government, education and non-profit agencies operate more efficiently by helping save time and money with contract purchasing solutions nationwide. Generac Mobile equipment with related accessories and attachments can now be purchased through this program.

With Generac Mobile's newly awarded contract, dealers can now sell direct to Sourcewell members in government, education and nonprofit entities saving their customers time and money. Generac Mobile is committed to supporting you before, during and after the sale and its technical support team is available 24/7/365 should you need assistance. Sourcewell membership is available to all government,

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Sourcewell contract #041719-GEN gives you access to Generac's generators, light towers and the rest of its portable construction equipment portfolio.

Source: Generac Power Systems, Inc.

HIDROMEK AT BICES IN CHINA

HIDROMEK showcased wheel and crawler excavators at BICES 2019 International Construction Machinery, Building Material Machines and Mining Machines Fair, held in Beijing, China, September 4-7, 2019.

With the purchase of the motor grader business line from Mitsubishi, Thailand, in 2014, HIDROMEK has acquired important distribution channels in the Far Eastern markets allowing it to promote its other products in this market.

HIDROMEK excavators are durable, powerful and fuel efficient, ensuring high performance even in severe field conditions with their reinforced heavy-duty construction produced with high-

technology.

Wheel excavator and crawler excavators of the, design-awarded Gen Series, stand out with their comfortable cab that fully meets the operator's needs.

Source: HIDROMEK

A NEW LEADER IN IT SOLUTIONS FOR EQUIPMENT AND VEHICLE RENTALS AND FLEET MANAGEMENT

Groupe ISAGRI recently announced the acquisition of VEGA Systems and its subsidiary Gyzmo Technology, a company known for its software and service company dedicated to equipment and vehicle rental and fleet management. More than 250 medium-sized and large companies are joining the Group's customer base and will be able to benefit from a set of coherent, comprehensive and complementary IT solutions covering all their management needs.

Hotman Hozman, current managing director for VEGA Systems, will lead the new ISAGRI affiliate, in close partnership with Frédéric Bon, executive officer for

IRIUM SOFTWARE, in order to merge the 2 companies by 2021, and thereby build the leader in dealers, rental, fleet management of equipment and vehicles.

This new merger will allow Groupe ISAGRI to offer quality support to help its customers in their digital transition, covering all their actual and future needs.

Source: Groupe ISAGRI

PA TURNPIKE COMMISSION WINS PRESTIGIOUS PRESIDENT'S AWARD FROM IBTTA

On September 16, during its 87th Annual Meeting & Exhibition in Halifax, Nova Scotia, the International Bridge, Tunnel and Turnpike Association (IBTTA) announced it has awarded the Pennsylvania Turnpike Commission (PTC) the prestigious 2019 President's Award for Toll Excellence. IBTTA is the worldwide association representing toll facility owners and operators and the businesses that serve them. The President's Award for Toll Excellence is the top honor the international transportation association gives out each year.

PTC was named the winner of the 2019 President's Award for Toll Excellence for the development of a suite of web-based applications, "*Catch it Early, Act, Analyze and Review*" allowing duty officers to respond proactively to situations as they arise in order to maintain traffic flow and more effectively monitor driver's travel times across the Pennsylvania Turnpike.

PTC is one of 6 tolling agencies recognized earlier this year as a Toll Excellence Award winner. The President's Award for Toll Excellence is selected from this group of previous awardees as the "winner among winners."

Known as "America's First Superhighway," the Pennsylvania Turnpike opened October 1st, 1940. The PTC operates and maintains 888 km of toll roads in the Commonwealth. It oversees 68 fare-collection facilities, 17 service plazas and 27 maintenance facilities. With more than 2,000 employees, it generated US\$1.2 billion (\$1.6 billion) in annual toll revenue in fiscal year 2018.

Source: The International Bridge, Tunnel and Turnpike Association (IBTTA)

AGF ACCESS GROUP AWARDED BECHTEL CONTRACT FOR VOGTLE NUCLEAR UNITS

AGF Access Group, Inc., based in Montreal, Quebec, recently announced that Bechtel Power Corporation has awarded

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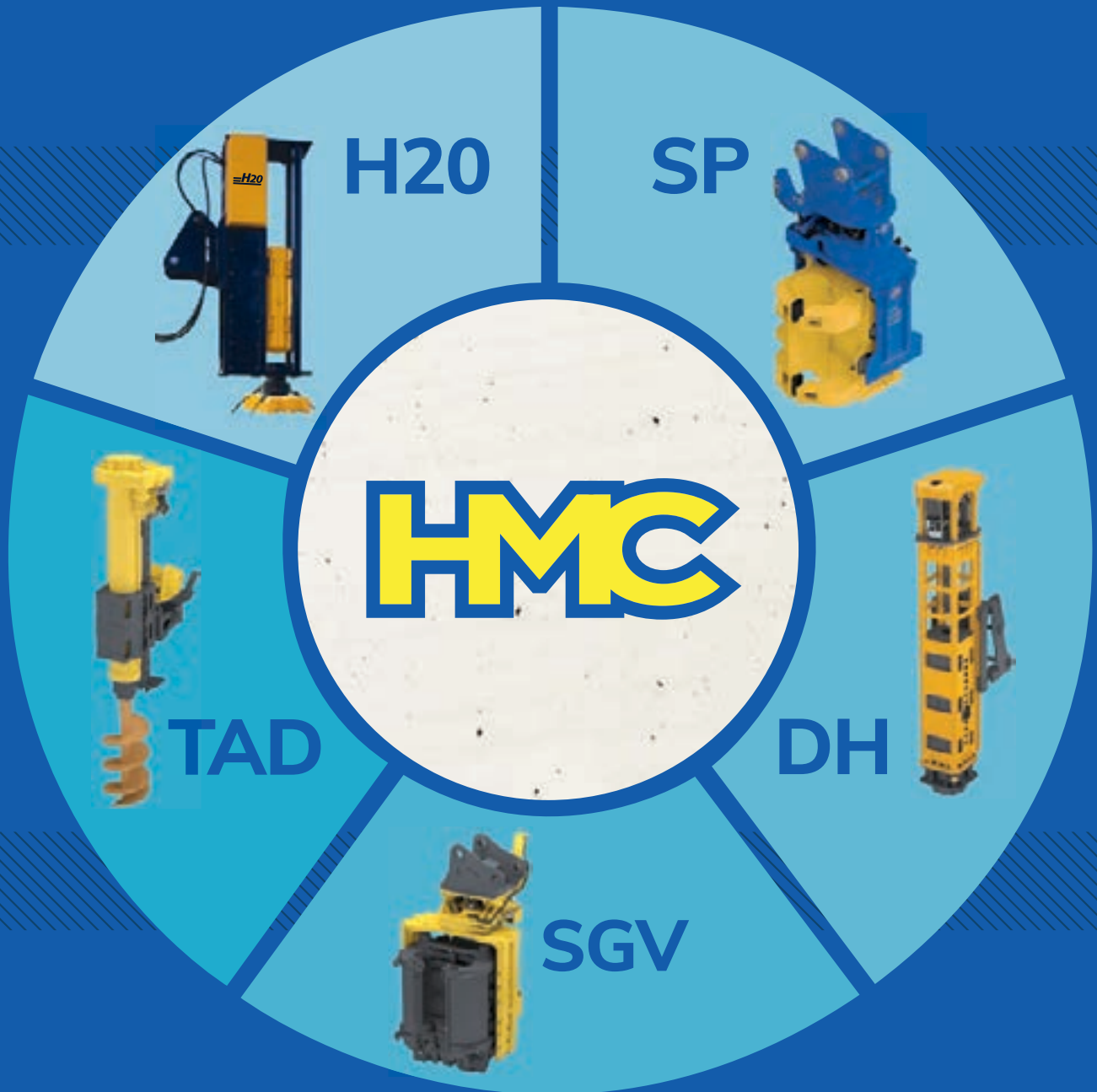
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the company with a contract for the design and supply of 12 Hydro Mobile mast climbers for the Vogtle nuclear expansion project near Waynesboro, Georgia. A separate contract will include all site services such as supervision, training and technical support. First and final deliveries are scheduled for September and December 2019 respectively.

According to the Georgia Power website, the new nuclear units are the first to be built in the U.S. in the last 3 decades.

"Because of our experience in the nuclear market both here in North America and overseas, AAG has become recognized as the access expert to count on," said Alex Di Domenico, vice president, major projects, AAG.

The Hydro Mobile M2 mast climbing work platforms will provide the workers with large, 2.1 m wide decks, anywhere from 60 cm to 3 m in length with access to construct the Unit 4 Shielding Building. The easy-to-use, 10,000 kg capacity platforms will have an operating speed of 0.9 m/min, power drive system, and hydraulic ratchet drive.

The Hydro Mobile F2 Series mast climbers, a model popular for its speed, are capable of travelling at 11.5 m/min, and offering a capacity of up to 1,587 kg. The F2 can be split into 2 transport platforms, each travelling independently on one side of the mast tower set up as needed for construction and transport for both the Unit 3 and 4 Shielding Building.

Gehl RT135 Track Loader Now Available in North America

Gehl recently introduced its new RT135 track loader, strengthening its product offering to 10 track loaders.

The Gehl RT135 delivers profound power in a compact fashion, at an overall width of 145 cm and height of 193 cm. It can lift up to 279 cm and, at 35% operating capacity, can lift 612 kg. With an operating weight of only 2,953 kg, the RT135 can be easily transported, making it an ideal machine for the rental industry and construction sites.

The Gehl RT135 is powered with a 46.6-hp (34.3 kW) Yanmar engine that utilizes automatic regeneration and zero fuel additives, providing clean emissions with little to no effort from the operator.

The Gehl RT135 is equipped with the industry exclusive IdealTrax™ track tensioning system. IdealTrax™ saves on maintenance and track replacement costs by automatically tensioning the tracks when the engine is on, eliminating the chance of over-tensioning and extending the life of the tracks up to 15%. Track tension is released when the engine is turned off, reducing strain on sprockets and bearings. Additionally, the need for manual tensioning of the tracks and daily tension checks are eliminated with the equipped IdealTrax™.

The Gehl RT135 track loader is compatible with most allied track loader attachments. The Gehl exclusive All-Tach® universal attachment system allows the RT135 versatility to meet the needs of any project. An optional Power-A-Tach® system engages and disengages an attachment without the operator having to leave the operator station, providing an increase in efficiency and safety. Additional optional features on the RT135 include a back-up camera and a self-leveling hydraulic lift that keeps the attachment level throughout the raise/lift cycle.

Source: Manitou Group



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Source: AGF Access Group

CASE CE ANNOUNCES 2019 "DIAMOND DEALER" AND "GOLD DEALER" AWARD WINNERS

CASE Construction Equipment has named its 2019 "Diamond Dealer" and "Gold Dealer" award recipients as part of its North American Construction Equipment Partnership Program. The awards recognize dealerships across the U.S. and Canada for excellence in five categories including sales performance, marketing

and communications, product support, parts support and training.

The 2019 *Diamond Dealer* award winners are: ASCO Equipment (Texas), Beauregard Equipment Inc. (Maine, Vermont, New Hampshire), Crawler Supply Company (Louisiana), Groff Tractor (Pennsylvania, Maryland, New Jersey), HiTrac (1974) Inc. (Manitoba), J.R. Brisson Equipment (Ontario), Kucera Group (Ontario), Longus Equipment Inc. (Quebec), McCann Industries Inc. (Illinois, Indiana, Michigan), Medico Industries Inc. (Pennsylvania), Nueces Power Equipment (Texas), Redhead Equipment (Saskatchewan) and State Equipment Inc. (West Virginia, Kentucky).

The 2019 *Gold Dealer* award winners

are: Eagle Power & Equipment (Delaware, Pennsylvania), Lawrence Equipment (Virginia), Maritime CASE Ltd. (New Brunswick) Monroe Tractor (New York, Massachusetts, Connecticut) and RPM Machinery (Indiana).

"Our 2019 Diamond Dealer and Gold Dealer Award winners have all shown a commitment to further developing the CASE brand in North America, as well as a continued dedication to providing the ultimate ownership experience for CASE customers," says Brian Weisbaum, director of dealer development – North America, CASE Construction Equipment. "We congratulate this year's winners and will work with them, and our entire dealer network, to further support all equipment owners throughout North America."

CASE's Partnership Program is designed to increase dealer performance per the results of a dealer assessment while encouraging them to excel in their role as a "Professional Partner" to customers.

Source: CASE Construction Equipment

16-Hour Working Day No Challenge for Magna Tyres

Tadweer Waste Treatment LLC, located in Dubai, UAE, is using 20.5R25 Magna MA01 tires for their CAT 938G wheel loader. This machine is working up to 16 hours a day, handling all types of domestic waste from the yard to the conveyor belt for segregation.

Despite the many hours that the tires are making, their performance is excellent. The tires are functioning smoothly, the tread compound provides excellent protection against cutting and abrasion and the single max load has improved compared to previous tires.

Tadweer Waste Treatment LLC, established in the year 2006 is an integrated waste management company. Commenced with the support of Dubai Municipality as a strategic partner, the plant is equipped with modern systems and facilities for sorting all kind of domestic waste to process further for recycling.

The Magna MA01 tire is designed for use on wheel loaders, dozers, scrapers, graders and articulated dump trucks. Aggressive E3/L3 non-directional tread pattern provides superior traction in soft ground. All steel radial construction and improved protector plies optimize load performance and operator comfort. New improved technology of the high-tech casing reduces heat buildup inside the tire.

Source: Magna Tyres Group



MAGNA TYRES ANNOUNCES STRATEGIC PARTNERSHIP WITH TIRES DIRECT

Magna Tyres Group recently announced its first strategic cooperation and alliance in U.S. with Tires Direct, quickly after the earlier announcement of opening an U.S. office.

Tires Direct is a very important partner in the U.S. market for Magna Tyres Group to expand the business. Magna's growth trajectory in the last half year has been significant and the partnership with Tires Direct is another milestone. Tires Direct has warehouses all across U.S. and wide network of dealers

The growing demand non-Chinese tires has increased in the last months. Due to this, Magna has further expanded its production capacity in Holland and Thailand. The combination of Magna's innovating European engineered technology and local Dutch production ensures the premium quality manufacturing requested by our U.S. customers.

Source: Magna Tyres Group

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YANMAR Launches High-Power Engines at Agritechnica

At the next Agritechnica, to be held in Hanover, Germany, this November, YANMAR will show the complete lineup of its renowned diesel engines with special attention given to the newest industrial engines, the 4TN101 and 4TN107. Introduced at Intermat last year, they will be shown for the first time in its agricultural configuration.

The new TN series combines durability and robustness with class-leading low fuel consumption and high power density. Both engines are particularly suitable for agricultural tractors and telescopic handlers.

The 4TN101 is a 3.8 l aftercooled, turbocharged common rail engine producing 55-105 kW and 550 Nm of torque. This engine will be on display in its tractor configuration with a mounted DPF. Its compact profile and high performances have already caught the attention of several OEMs. Serial production start is planned for 2021.

The 4TN107 is a 4.6 l aftercooled 2-stage

turbocharged common rail engine peaking at 155 kW while achieving a maximum torque of 805 Nm. This model will be shown in its tractor configuration with a bespoke DPF. By the end of 2019 the first serial production models will roll out of YANMAR's highly automated factory in Japan.

By implementing YANMAR's advanced combustion technology, which has been optimized through years of manufacturing industrial and marine diesel engines, the engines achieve fuel consumption reductions of approximately 10% compared to a similar-sized engine with the same output.

Both engines deliver superior torque to meet the requirements of a wide variety of industrial fields, including construction, agriculture and materials handling.



The compact profile of the engine takes into account the needs of vehicle manufacturers, improving installation characteristics.

Source: YANMAR

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Hiab Meets Challenges of Waste Collection Customers

Hiab, part of Cargotec, recently launched a new crane for the waste collection market. The HIAB S-HiPro 230W made its debut at this year's ReinigingsDemo-Dagen (RDD) trade show held June 5-6, in Utrecht, Netherlands. Intended for use with underground refuse containers, Hiab has engineered the HIAB S-HiPro 230W to make it easier for operators to efficiently and safely perform their work in increasingly crowded and chaotic urban centers.

"As more cities around the world turn to underground containers as an aesthetically pleasant and convenient solution for managing waste, we at Hiab have been listening to customers about the challenges of handling and emptying these containers. Working in traffic on congested streets, they need equipment that allows them to collect the waste quickly, without damaging the truck or posing a risk to operators and the surrounding area. In an industry with high employee turnover, they also need technology that offers simple



and intuitive control for beginning operators," said Hans Ohlsson, director, Medium Range, HIAB Loader Cranes.

Hiab designed the HIAB S-HiPro 230W with exactly these customer demands in mind, resulting in a waste collection crane that ensures stronger, simpler and safer performance. Compared to earlier generations, the new crane provides up to 30% greater lifting capacity in the positions that

are most crucial for this specific application. At the same time, Hiab engineers have managed to reduce the dead weight of the crane by around 150 kg.



Innovative Plastic Recycling Process from Herbold Meckesheim

The machine and plant manufacturer from Meckesheim, Germany, will be presenting tried and tested process solutions for the treatment of plastic waste at K 2019, known as "The World's No. 1 Trade Fair for Plastics and Rubber", to take place October 16-23, 2019 in Düsseldorf.

The solutions from Herbold are based on 40 years of experience and continuous innovation in post-industrial and post-consumer applications.

"Size reducing, washing, separating and drying, and agglomeration are our main processes. Our customers value our wide range of machine options and the ability to obtain custom plant designs from a single source. With our focus on the circular economy, we are fully in line with the current spirit of the times and with one of the main topics of the K 2019 trade fair," said Werner Herbold, one of the two general managers.

Source: Herbold Meckesheim GmbH



The HIAB S-HiPro 230W comes equipped with Hiab's advanced HiPro remote control system, which makes it easy to steer the crane with complete precision for novice operators. It also has Hiab's unique Semi-Automatic Motion system. It simplifies crane operation which in turn increases the level of safety that the crane can offer.

"With a crane that practically controls itself, operators can instead concentrate on making sure that they, the truck and the surrounding areas are safe and protected," added Mr. Ohlsson.

"We know that the main focus of fleets working in urban waste collection is to get each job done quickly and without trouble so they can carry on to the next one. As a stronger, simpler and safer crane, we believe the HIAB S-HiPro 230W will make it easier than ever to do just that. This is why we are launching it with the promise that this is a crane that will keep you moving!," he concluded.

Source: Hiab

Multi-Tasking SENNEBOGEN 830 E Demolition Machine Takes Down Vacant Fortress

After 10 years of seeing the Wangler furniture store stand vacant, local residents in Regensburg, Germany, were pleased to see a crew from Metz GmbH arrive to tear down what was left standing of the old fortress. At the center of the jobsite was a SENNEBOGEN 830 R-HDD E Series material handler fitted with a variety of attachments to bring down and extract the material, sort it and load it for on-site crushing.

The 830 R-HDD E is a 40,800 kg machine on a crawler undercarriage that is specially equipped for the demanding conditions of demolition work. Easy to transport on a lowboy trailer, short set-up time and flexible range of attachments are just some of the reasons why the contractor decided to purchase the SENNEBOGEN machine.

Metz GmbH was founded in 2007 and specializes in full-service dismantling



projects – from the controlled demolition of the structure, to crushing and sorting, right through to the removal of material, all carried out by a 25-person expert demolition crew. Clearly, this one-stop approach requires machines that are as flexible as possible and Metz found them through working with SENNEBOGEN and their local

SENNEBOGEN dealer.

With a reach of 19 m and a full width of 4.5 m, the 830's demolition ability is ideally suited to downtown demolition.

"Despite its compact footprint, the machine is very stable. This is especially evident when we are working with large loads or reaching up high," said operator Andreas Feigl.

Another plus is that the machine has a 360° working radius with equal load capacity in all directions. This provides an ideal view of the entire work area from the cab. The elevating Maxcab with a 30° tilt means that the operator can work comfort-

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1979 SMI 5250, GM/GM 6-71, new paint, ex-municipal **\$39,000**



SMI 7200, rebuilt 1997, GM V-12 engine **\$48,500**



1993 SMI 7250A, GM / GM 410 hp, very clean **\$105,000**



1990 SMI 5250A, two GM diesels, 2000 t/h capacity, very clean, 3300 h **\$75,000**



Vanair® Introduces Patent-Pending Integrated Separator Tank

Vanair Manufacturing introduced a new, patent-pending Integrated Separator Tank at ICUEE 2019 in Louisville, Kentucky.

The new separator tank design features integrated manifolds containing a minimum pressure valve, thermo-valve,



ably at an eye-level height of 6 m. From the ergonomic comfort seat, he can control the shears, bucket or demolition grab with a direct view of the attachment, even when reaching the tallest part of the building.

"Operating with reduced emissions is an important responsibility. It's not just being kind to the environment but it's also important to be easy on the wallet. The SENNEBOGEN 830 comes out really well

in the time-money-precision equation!," said Christian Metz, founder and managing director of the demolition company. "The low fuel consumption of its Tier 4 final diesel engine and the reduced downtime with fewer refueling stops has completely won us over!."

Source: SENNEBOGEN LLC

The Hard Hat Turns 100

A hundred years ago, the hard hat did not exist. And 50 years ago, head protection was not widely required for workers. But, thanks to advances in safety, the hard hat has evolved over the decades.

"In 1915, my grandfather began work on a helmet that could protect miners from falling objects. He based it on the doughboy, a helmet he'd worn as a soldier in World War I. The 'Hard Boiled® Hat', patented in 1919, was so called because of the steam used in the manufacturing process," said Edward D. Bullard, former president and CEO of Bullard. "The original 'Hard Boiled® hat' was manufactured out of steamed canvas, glue, a leather brim, and black paint. My grandfather built a suspension device into what became the world's first, commercially available, industrial head-protection device."

Founded in San Francisco by Edward Dickinson Bullard in 1898, Bullard sold carbide lamps and mining equipment to gold and copper miners.

The first designated "Hard Hat Area" in America was set up at the San Francisco Golden Gate Bridge construction site where falling rivets could cause serious injury to the workers.

Source: Bullard



Photo: National Museum of American History

thermistors, transducers, pressure regulators, oil filter, ultrasonic oil level sensors, and optional cold-weather oil heater. It also features SAE O-Ring and JIC connections, virtually eliminating leak points associated with conventional galvanized pipe fitting designs. The Integrated Separator Tank is shipped fully assembled and ready for final mounting, which reduces installation time by approximately 2 hours. The result of these innovations is an impressive 60% plus reduction in leak points compared to competitive tank designs. Another Vanair first is a new optional redundancy provision feature for thermistors and transducers.

"Vanair is always pursuing advanced engineering designs for increased reliability, durability and the lowest cost of ownership for those we seek to serve. These are the most advanced improvements in the tank design in our 48 years of history," said Ralph Kokot, CEO of Vanair. "Vanair ingenuity means lower operating cost, with greater dependability."

Source: Vanair Manufacturing

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Peri Systems in Use for Construction of a New Airport in Istanbul

Istanbul Airport can currently accommodate around 90 million passengers per year. When all phases are completed, in 2028, it will handle up to 200 million passengers annually. Two gigantic terminal buildings have been planned to deal with this enormous increase in passenger volume – the first terminal alone provides 1.44 million m² of effective area.

A total of 13 different building contractors contributed to the completion using PERI systems, including İGA Havalimanları İnşaatı Adi Ortaklığı Ticari İşletmesi, of Istanbul.

Various PERI systems were used in the construction of the terminal building as well as for realizing other structures.

Opened in 2018, it replaced Istanbul Atatürk Airport. The new airport is located

north-west of Istanbul and features 6 runways and, in 10 years time, is expected to handle a larger passenger volume than



Hartsfield-Jackson Atlanta International Airport, currently the world's largest airport in terms of passenger traffic.

PERI systems were not only used in the realization of the main terminal building but also deployed for constructing various

other facilities. A range of PERI systems were used to construct, for example, a multi-storey car park, maintenance building, fire station, cargo building, energy building, wastewater treatment plant, subway terminal, passenger and luggage tunnels, security building and a mosque.

Using state-of-the-art PERI formwork technology, the construction team successfully formed the high walls and columns in the best architectural concrete quality. In one part of the building, walls and slabs up to 14 m high with a width of up to 1.75 m were realized. In the process, the slab beams featured heights of up to 2.3 m.

The construction team formed the reinforced concrete core walls with TRIO wall formwork which offers the possibility of moving large-sized units by crane. This saved valuable working time during the Istanbul Airport project.

For processing the approximately 220,000 m² slab area at a height of 17.5 m,

BMH Technology to Deliver Waste to Fuel Solutions

Finnish company BMH Technology Oy has signed new deals to the United Arab Emirates, China and Finland. The contracts amount to a total value of €23,5 million (\$34.2 million). The handovers for all deliveries are scheduled to take place during 2020.

For Six Construct Ltd. Co, in Umm al-Quwain, UAE, BMH Technology will deliver a 2-line TYRANNOSAURUS® SRF (Solid Recovered Fuel) production plant. The plant is the first of its kind in the area and it turns local waste into high-quality standardized fuel. The plant's fuel production capacity will be over 300,000 t/y and it will mainly supply local cement kilns with SRF, replacing fossil fuel.

Seinäjoen Energia Oy, in Seinäjoki, Finland, is building a new 50 MW power

plant that uses biomass and peat as its fuel. BMH Technology will deliver the fuel handling system including receiving, fuel quality control, 2 storage silos, conveyors, fuel feeding to boiler and all auxiliary systems.

The contract with Shanying Paper, in Hayian, China, is for the delivery of a TYRANNOSAURUS® waste refining plant and a storage system. BMH Technology delivers 2 TYRANNOSAURUS® lines for handling pulper reject and textile waste.

The ready SRF is stored in an A-frame storage and fed to the circulating fluidized bed (CFB) boiler. The process separates magnetic and non-magnetic metals for



Peter Wallenius, senior vice president, sales and marketing of BMH Technology Oy and Christophe Ledur, general manager of Six Construct Ltd. Co, signed the contract in June.

material recycling. In addition, the PVC plastic fraction, which is harmful for the boiler, is separated for reuse.

Source: BMH Technology Oy

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the construction teams installed a total of 15,500 m² of platforms with spans of up to 15 m and supported by PERI UP Flex shoring. In order to fulfil all the requirements of the clients, the PERI UP scaffolding completely shielded site activities from ongoing airport operations. The scaffolding construction simultaneously served as working scaffold.

Installation of system decking provided protection for the area under the platforms so that the check-in desks could be installed beforehand. Due to the tight schedule and the enormous slab area, it was also necessary to minimize both the assembly and moving times for the working platforms. To that effect, PERI used transportation wheels in order to easily move the platform elements by hand in a longitudinal direction. Thanks to the high degree of system rigidity, an area of up to 540 m² could be moved as one unit. Independent of the height of the platforms



– some of the working platforms were mounted at heights of up to 40 m – the LGS elements could be manually moved to their next place of use in only 15 minutes.

Last but not least, PERI worked closely together with all participants to ensure that the large quantities of materials were delivered on a just-in-time basis in spite of the short lead time. Right from the very beginning, PERI engineers and supervisors provided extremely reliable support

through comprehensive on-site assistance in order to ensure that all system devices were efficiently used from the outset.

Thanks to the close cooperation between PERI Turkey and PERI GmbH along with the help of the state-of-the-art system solutions, it was possible to successfully realize this extremely important project and in the shortest possible time.

Source: PERI GmbH

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Elgin Sweeper RegenX™ Regenerative Air Sweeper

Elgin Sweeper Company announced the launch of the RegenX™ regenerative air street sweeper, a sweeper designed with the input of municipalities and contractors including operators, service technicians, fleet managers and public works directors across the U.S. and Canada.

Elgin Sweeper has been a leader in the sweeper industry for more than a

100 years and manufactures a full line of street sweepers including regenerative air sweepers. In designing the new RegenX, Elgin Sweeper formed an innovation team to perform several months of voice-of-the-customer research. They conducted hundreds of interviews and on-the-road

ride-alongs with users of both Elgin Sweeper products and competitive sweepers to determine the features and qualities most important to them.



The team then developed a prototype and took the unit out to the market. They continued to collect feedback and make changes. After countless conversations and iterations, along with real-world testing, all the input came together, and they created the RegenX.

This new regenerative air sweeper is built with the quality and proven technology that is the hallmark of Elgin Sweeper vehicles, but is easier to service, simpler to



operate and easier to clean than competitive regenerative air products – in fact, the smooth design of its hopper and 50° dump angle could make the RegenX the easiest sweeper to clean in the industry.

The RegenX also maximizes operator efficiency without the addition of premium

Manulift Expands Its Reach in the GTA

Manulift E.M.I. recently announced the opening of a \$10 million operations center in the Greater Toronto Area (GTA), strategically situated on the Queen Elizabeth Way (QEW) in Stoney Creek, Ontario. Manulift will bring to the GTA a level of service and supply that are unsurpassed in the industry.

Manulift has a long history of helping construction contractors to improve their productivity and is present in other special markets as well. Manulift is proud to be a supplier to the Canadian Armed Forces and its machines are used for the construction of the Eglinton Crosstown LRT – an \$8 billion project that will provide Toronto with a new world-class light rail system by 2021.

“We are privileged and honored to participate in the development of projects like the LRT in Toronto and we will be there as the Queen City continues to grow,” said Martin Drolet, president of Manulift.

The state-of-the-art service center in Stoney Creek covers some 2,800 m². It is designed to cater to the needs of clients who work in building, tunneling, mining,



public works, recycling and other industries.

“The addition of Manulift Stoney Creek (Hamilton) to our facilities in Calgary, Montreal and Quebec City and our national distribution network will allow us to accelerate our growth over the next 5 years,” added Mr. Drolet. “Manulift is the country’s leading supplier of compact, high-performance and made-for-safety telescopic equipment. Staying at the forefront of the

industry drives our growth hour by hour, day by day.”

The choice and inventory of telescopic equipment you will find at Manulift are unmatched. They make for increased speed, increased security and increased cost efficiency on all manner of work sites and special projects, including Formula 1 racing.

Source: Manulift E.M.I.

mechanical parts, such as a scissor lift, that increase cost and can reduce capacity. As a result, the RegenX is the only sweeper in the industry to offer the ability to dump into roll-off containers while still boasting an impressive 6.1 m³ capacity.

"We couldn't have developed the RegenX without our new innovation process," said Mike Higgins, vice president and general manager of Elgin Sweeper Company. "The time and effort we invested talking with operators and users ensured we built a product that provides the ultimate user experience in regenerative air sweeping."

The new RegenX was officially introduced at the American Public Works Association Exposition (PWX), held September 8-11 in Seattle, Washington. The RegenX is also supported by a dedicated Elgin Sweeper team, coast-to-coast dealer availability for live demonstrations and support, and marketed under the theme "Built by Elgin. Designed by You", to give



recognition to the role actual users had in the product development.

Sold and serviced through a network of more than 100 dealer locations worldwide, Elgin Sweeper products are the sweepers of choice for a variety of general street maintenance, special industrial and airport applications. With more than 100 years of experience, Elgin Sweeper offers municipalities, contractors and industries

the most sweeper options in the country, using the latest sweeping technologies—mechanical, pure vacuum, regenerative air, alternative fuel and waterless dust control. Elgin Sweeper is a subsidiary of Federal Signal Corporation's Environmental Solutions Group.

Source: Federal Signal Corporation



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BRACE Introduces Power Transmission Pole Scaffolding Solution at ICUEE 2019

Record-setting electricity needs are placing more demands on the electricity supply chain than ever before. With more than 580,000 km of transmission lines in the U.S. bulk electric system, transmission pole construction, warranty inspections and repair projects present a myriad of challenges for operators, including aging steel structures remaining in service, corrosion issues, damage caused by harsh climate conditions, and other challenges that further complicate construction and maintenance of the grid.

BRACE Industrial Group is ready to shed some light on increasing efficiencies and cost savings for utility contractors and maintenance firms involved in large power line projects. BRACE showcased its new transmission pole scaffolding system at ICUEE, held October 1-3 in Louisville, Kentucky.

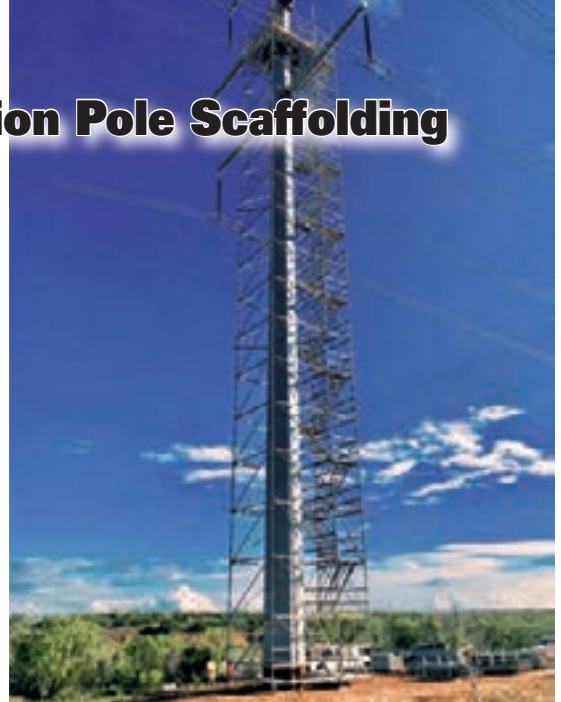
Based on a "less is more" concept, the new BRACE modular scaffolding system

delivers quicker, easier access to power transmission line poles to keep the work moving even under the tightest deadlines.

"Our advanced scaffolding solution is simpler and easier to handle compared with bringing in trucks and crane baskets, especially in hard-to-reach places like rural areas, where construction warranties on transmission poles require a firsthand physical inspection," explains Danny Saenz, president of BRACE Integrated Services – Southwest. "This is a way to get inspections done quicker and cheaper."

The cutting-edge scaffolding kit features self-locking ledgers and self-locking decking ensuring that decks are locked into place, secured against lifting and ensure a gapless fit to any geometry. In fact, the main components – standards, ledgers and

decking – have a uniform length and width grid arrangement of 25 cm or 50 cm. About 15% lighter in weight than most traditional scaffolding materials, the decking can be flexibly installed in 2 directions without causing tripping hazards. Fewer workers are required to install and dismantle the



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EVUM Motors Presents Its New aCar at the IAA

system, which can help lower costs. Thus, complete kit units can be preassembled safely and quickly on the ground and then joined together to form larger scaffold units.

BRACE scaffolding can significantly reduce wind-out/weather delays and high costs associated with cranes. A stiff breeze (30 km/h or more) could shut down a crew for the day, resulting in costly downtime.

"Less time is required to repair easements and BRACE scaffolding supports auto-welding equipment at extreme heights," noted Malachi Millard, operations director of Brace Integrated Services-Southwest. "Our crews can work ahead of the inspection and repair crews, which is not possible with a crane. We can get in and out in 2 days, which is a more expedited timeline than what a crane allows," he added.

Source: BRACE Industrial Group

EVUM Motors GmbH showcased its new aCar at Frankfurt's International Motor Show (IAA) last September. An electric 4-wheel drivetrain makes the aCar the versatile helper for municipal work, construction, industry and agriculture. With its modular design and high versatility, the robust and agile aCar is the most economic and ecological solution for the widest variety of tasks.

"Small utility vehicles are a market in which electrically-driven vehicles are already competitive today," says Martin Šoltés, cofounder of EVUM Motors. "Thanks to the 4-wheel drive the aCar handles application areas far beyond the normal road system and, since it operates locally emission-free, it can also be used indoors for intralogistics."

The aCar is a modular concept with a 1,000 kg payload and top speed of 70 km/h. The flexible battery concept gives the aCar a range of up to 200 km. Series production will start in 2020.

Compared to the prototype presented by the Technical University of Munich in 2017 (TU München), the overall design of the EVUM aCar has been completely revised.

Its robust design can accommodate utility add-ons such as a street sweeper unit or even a dozer blade.

Source: EVUM Motors GmbH



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Komatsu's People-Powered Technology Behind World-Class Mine Standards

Komatsu recently announced the deployment of an unprecedented 41 new model Komatsu 930E-5 ultra-class haul trucks, made autonomous ready, at BHP's new South Flank iron ore mine in the Pilbara region of Western Australia, commencing in October 2019.

"People-powered technology is our central philosophy at Komatsu, and it's this people first approach to technology that we feel we share with BHP," according to Sean Taylor, Komatsu Australia's CEO and managing director.

"Komatsu focuses on autonomous technology-driven job creation, with focus on safety, diversity, upskilling and an innovative flexible work force that marries our people's needs with business goals. This is our blueprint for the future," continued Mr. Taylor.

Not only does Komatsu Australia have a proven record in safety, productivity and lower haulage costs, but Komatsu prides itself on its ground-breaking contributions to autonomous technology solutions in the industry.

"It was Komatsu Australia who 20 years ago spearheaded the world first automation of mining equipment, which is now known to the industry as Autonomous Haulage Systems (AHS).

Komatsu's brand of AHS is FrontRunner, the name speaks for itself," said Leo Kaloglou, Komatsu Australia's executive general manager – Mining.



"Komatsu has 250 AHS trucks deployed and 180 operating now globally across 3 continents, across 9 mine sites, and recently became the first autonomous truck qualified to operate on private long-term evolution (LTE) mobile broadband technology in commercial operations. The operation of FrontRunner AHS technology has been tested across 3 different commodities in 3 of the harshest and most extreme environments in the world; in ambient

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temperatures of -45°C, in temperatures higher than 40°C, and finally at extreme altitude. With over 2 billion t of material moved autonomously – more than all other commercial mining autonomous haulage systems – with zero resulting injuries,” continued Mr. Kaloglou.

“While the transport sector automates, including cars and trains, the sheer size and scale of our machinery and the harsh environments in which they operate, indicate the impressive capabilities of our engineers and technical teams who make these challenges surmountable,” concluded Leo Kaloglou.

With the launch of Komatsu’s new Center of Excellence for Autonomous Haulage Systems in April 2019 in Tucson, Arizona, Komatsu is committed to innovation, training and people power.

Komatsu is also committed to employing local Western Australian workers to support the workforce needs of Komatsu’s fleet for the BHP South Flank mine site. Technicians, apprentices, mechanics, electricians and boiler maker welders plus more roles will be recruited. This will add job opportunities for the local Western Australian workforce in both full time and part time capacities.

Source: Komatsu Australia Pty Ltd.

Record numbers of utility and construction professionals converged on the 2019 International Construction & Utility Equipment Exposition (ICUEE), held October 1-3 in Louisville, Kentucky.

Registered attendance topped 19,000, from the U.S., Canada and more than 65 other countries worldwide.

“We shattered our attendance record on Tuesday,” said John Rozum, ICUEE show director.

“Our 70 registration kiosks were printing 25 badges per minute between 8 and 10 a.m., so we knew the temperature wasn’t the only thing running hot that day and breaking records.”

ICUEE 2019 included over 1,000 exhibitors showcasing the latest products and solutions for the utility construction industry.

The next ICUEE will be held September 28-30, 2021 returning to Louisville and the Kentucky Exposition Center.

Source: ICUEE



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NTEA Releases Training Module on Vehicle Powertrains

To support employee education and training in the work truck industry, NTEA has developed a Truck Equipment 201 module covering commercial vehicle powertrains. TE201 is intended as a series of online course modules, designed for those with technical knowledge seeking deeper understanding of specific topics outlined in TE101 – introductory course released by NTEA in 2017. The powertrain module – second TE201 course – will help expand understanding of the vehicle powertrain by reviewing horsepower and torque, engine function and alternative propulsion, power and torque transfer by the transmission, and driveline and axle.

“The second TE201 module addresses powertrains – critical to vehicle movement,” said Susan Dehne, NTEA senior director of technical services. “This course goes in depth explaining related elements and applications in a straightforward, easy-to-understand format, serving as an effective resource for industry profession-

als.”

The second module of TE201 builds on the success of the first that launched in February 2019, reviewing U.S., Canadian, and European Union (EU) certification processes and U.S./Canadian label requirements, as well as the influence of motor vehicle safety standards.

TE101 – the foundational course – covers all aspects of work trucks and the industry. Made up of 15 online modules, TE101 provides insight into systems that make up a truck and basic regulatory requirements applicable to U.S. and Canadian markets. Details available at ntea.com/te101.

There are no course prerequisites. To receive a certificate of completion for the powertrain module, the learner is required to complete a brief quiz following each of the 8 sections.

TE101/TE201 courses are available through NTEA’s learning management system, Elevate. After placing the order on Shop NTEA, the learner gains access

through ntea.com (members can use current login credentials).

The course is a free benefit to NTEA members and eligible for MVP credit and Continuing Education Units (CEUs) through our accreditation by the International Association for Continuing Education and Training. Nonmembers can purchase access to each TE201 module for US\$49 (\$65).

TE101/TE201 align with NTEA’s priority on workforce development. The Association identifies current workforce development challenges and global trends affecting the commercial vehicle industry. Visit ntea.com/workforcedevelopment to browse the many available resources and identify employee-specific training opportunities.

Source: NTEA – The Association for the Work Truck Industry

New License Agreement on sunliquid® Cellulosic Ethanol Technology

Clariant and ORLEN Południe, a member of ORLEN Group, which is a leader in the fuels and energy markets and the largest player in Central and Eastern Europe, recently signed a license agreement on sunliquid cellulosic ethanol technology.

The announcement represents a significant strategic milestone for Clariant as this second license agreement for its sunliquid technology is another successful step to commercialize its highly innovative and sustainable technology. For ORLEN Południe, the agreement supports the intention to realize a full scale commercial plant for the production of cellulosic ethanol from agricultural residues, which will further solidify the company’s position as a forerunner in the Polish biofuels and bio-component technologies.

“We are excited by the continued interest in our sunliquid cellulosic ethanol technology and proud to have signed this second license agreement. It shows that our long-term strategic commitment to innovation and sustainability can deliver

additional growth above and beyond Clariant’s current strong portfolio,” said Hans Bohnen, Clariant’s COO.

“In line with our strategy, we consistently develop and strengthen the Group companies, including ORLEN Południe. We invest in modern technologies and focus on high-margin products, as they will be crucial to maintaining our leading position in the region in the coming years. At the same time, we do not forget about corporate social responsibility and we apply solutions that significantly mitigate our environmental impact,” said Daniel Obajtek, president of the PKN ORLEN management board.

The license agreement enables ORLEN



Południe to use Clariant’s sunliquid technology for the project development and plant operation it is planning to execute at its Jedlicze site in southeastern Poland, utilizing available land and the integration potential with the existing Jedlicze petroleum refinery. It is planned that the production capacity will be 25,000 t/y.

Source: Clariant International Ltd

10 Million and Counting

Toyota Motor Corporation recently announced that cumulative global sales of its Land Cruiser series have surpassed 10 million units as of August 31, 2019.



The Land Cruiser is Toyota's longest-selling car. It launched on August 1st, 1951, as the Toyota "Jeep BJ", and production has continued for 68 years. Full-scale exports of the Land Cruiser began with the 20 Series, which was introduced in November 1955, since then, Toyota has consistently developed versions that cater to customer needs, without sacrificing the reliability, durability, and drivability on poor roads that served as the basis of development concepts on which the Land Cruiser is based. The Land Cruiser has, for this reason, continued to receive the support of customers around the world.



Today, the Land Cruiser is sold in approximately 170 countries and regions worldwide, with annual global sales standing at approximately 400,000 units. Due to its outstanding reliability and durability, there are regions where Land Cruiser 40 Series vehicles continue to be used today, some 50 years after they were manufactured.

Source: Toyota Motor Corporation



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New Joint Project to Advance Wind Turbine Recycling

*Maria Linkova-Nijs, Cefic
Special Collaboration*

ing to come to the end of their operational life and be replaced by modern turbines. Recycling the old blades is a top priority for us, and teaming up with the chemical and compositors industries will enable us to do it the most effective way."

"The chemical industry plays a decisive role in the transition to a circular economy by investing in the research and development of new materials, which make wind turbine blades more reliable, affordable and recyclable.

Innovation is born from collaboration and we look forward to working together to advance wind turbine blade recycling," commented Marco Mensink, Cefic director general.

"The wind energy sector has always been at the forefront of using composites as they are instrumental to sustainable energy generation. With this collaboration we hope to set a great industry standard that ultimately will also help customers in other industries like marine and building & infrastructure," added EUCIA president, Roberto Frassine.

Learnings from wind turbine recycling will then be transferred to other markets to enhance the overall sustainability of composites.

today at commercial scale through cement co-processing, where the cement raw materials are being partially replaced by the glass fibers and fillers in the composite, and the organic fraction replaces coal as a fuel. Through that process, the CO₂ output of the cement manufacturing process can be significantly reduced (up to 16% reduction is possible if composites represent 75% of cement raw materials).

Besides recycling through cement



co-processing, alternative technologies like mechanical recycling, solvolysis and pyrolysis are being developed, ultimately providing the industry with additional solutions for end-of-life.

WindEurope, Cefic (the European Chemical Industry Council) and EUCIA (the European Composites Industry Association) have created a cross-sector platform to advance novel approaches to the recycling of wind turbine blades.

In 2018 wind energy supplied 14% of the electricity in the EU with 130,000 wind turbines and this number will only grow in the coming decades. Wind turbines blades are made up of a composite material, which boosts the performance of wind energy by allowing lighter and longer blades.

Today, 2.5 million t of composite material are in use in the wind energy sector. In the next 5 years 12,000 wind turbines are expected to be decommissioned. Broadening the range of recycling options is critical for the industry's development.

"Wind energy is an increasingly important part of Europe's energy mix," said WindEurope CEO, Giles Dickson. "The first generation of wind turbines are now start-

BACKGROUND INFORMATION

Composite materials are being recycled

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



Continental Sets New Standards on the High Seas with an Effective Floating Oil Barrier

The energy requirements around the world mean an increase in the amount of crude oil transported by sea. This also brings an increase in the risk of accidents entailing considerable impact on the environment as well as on a company's profitability – both during pumping on the drilling rigs and in the event of maritime disasters involving damage to giant tankers.

In collaboration with a partner, Continental has now developed a highly effective protective measure: a new type of floating oil barrier that can withstand even Arctic storms. The floating barriers are used during regular maintenance for oil drilling rigs as well as in emergency situations because, despite stringent safety measures, accidents on the high seas cannot be completely avoided.

Following incidents and accidents, immediate action is essential in order to minimize the extent of the resulting oil slick. The floating barriers surround leaked oil at sea so that tankers can quickly pump it out of the water using hoses. Depending on the swell, this takes place directly at the deployment site or in more moderate waters with smaller waves.

The method of surrounding oil in this way is not new, and the floating barriers have also proven themselves for many years during maintenance work on oil drilling rigs. However, the latest generation of the oil barrier has a special feature to offer.

"What makes it so unique is the special width of the air bags. Products commonly found on the market measure no more than 2,000 mm. For production- and material-related reasons, it was previously not possible to manufacture this product with other dimensions. With our 3,200 mm-wide barriers, we are setting new standards in environmental technology," said Michael Möschen, application engineer at Continental.

With this development, Continental has succeeded in creating oil barriers that can withstand even heavy fall storms, while conventional designs are quickly washed over in heavy swell – with catastrophic consequences for the environment.

The devastating sinking of the Deepwater Horizon in the Gulf of Mexico in April 2010 showed that much wider barriers are



needed for reliably containing an oil slick. As a result, the number of inquiries for appropriate solutions increased and work to develop even wider barriers began.

"We are very well positioned in terms of product strategy, and even then our vulcanization process was sufficiently advanced. Production was a real challenge that we successfully overcome. We have since already delivered several of these 3,200 mm-wide oil barriers, but of course only after they had successfully undergone testing in heavy storms with meter-high waves," said Mr. Möschen describing the successful project.

The latest generation of barrier is made, assembled and vulcanized at the Continental plant in Northeim, Germany. Like the conveyor belts, another of Continental's specialties, it is made from rubber and various fabric layers. There is simply no alternative fabric on the market in the required size, which means that the separating layers of the individual pieces of fabric have to be joined together when the oil barriers are being made.

The particular challenge during production is therefore the manual assembly of the floating barriers, which makes the production process extremely laborious. On top of that, the units and presses have to work with extreme precision.

"The oil barriers have extremely thin walls for their width – no more than 6–7 mm. When they are shipped to the deployment site, they are coiled on strong winches. Every single kilogram counts and so the mass should be kept as low as possible," added Michael Möschen.

Tested under special conditions and at sea, the floating barriers have proven

themselves to be extraordinarily reliable and secure. In terms of width, they are unrivaled on the market.

To ensure that the barriers remain vertical in the water, chains with weights on them are attached below the water's surface. This prevents even thick layers of oil from floating into the open sea under the barrier and ensures instead that the oil is reliably contained.

The development team also paid particular attention to strength. Flotsam in the sea can damage the floating barriers. The high-strength fabric and sturdy rubber layer of this Continental development is extremely impressive in this respect, too, withstanding pressures of up to 0.5 bar in the laboratory.

That sounds modest, but it is enormous for an air bag of this size. And another aspect is important: the barriers are airtight like a bicycle inner tube – after all, no air must be allowed to escape during deployment. Air is pumped into the barriers as soon as they are lowered into the water by the winch on the ship.

The system's material is also resistant to ozone, fire, saltwater and oil. The barriers are suitable for multiple use and, depending on the harshness of the deployments, have a long service life for a product that is constantly exposed to adverse conditions.

"With the development of the 3,200 mm-wide oil barrier, we have demonstrated our expertise when it comes to materials and production. Moreover, it also consolidates our position as a trailblazer in the sustainable market of environmental technology," emphasized Mr. Möschen.

Source: ContiTech

Appointments

CASE Construction Equipment has named **Steve Cianci** as its new vice president for North America.

Mr. Cianci joins CASE with more than 25 years of leadership at various global heavy equipment and industrial companies – most recently with Kalmar USA, Inc.

Michel Marchand, who previously held the position, left in August to pursue new opportunities.

"The construction industry provides great opportunity for intelligent growth as we further streamline product offerings, strengthen the dealer network throughout North America, and focus on ways to help businesses succeed and drive efficiencies with their compact and heavy equipment fleets," said Steve Cianci. "CASE is a strong brand with great character and values, and I look forward to the work ahead."

Source: Case Construction Equipment



Established in 1992 near Cincinnati, Fecon manufactures the Bull Hog® forestry mulcher. They also manufacture tracked carriers and tractors, as well as a full range of attachments and other equipment for vegetation management. Their products are sold through equipment dealers and distributors worldwide.

Source: Fecon, Inc.

Jörg Wörner is **Continental's** new customer solutions engineer for earthmover tires in the Commercial Specialty Tires (CST) area. His arrival boosts the technical customer service operation in the EMEA region, which is instrumental in Continental's drive to focus directly on customers.

Mr. Wörner brings with him more than 30 years' experience in the tire business, having worked at Michelin Reifenwerke AG & Co. KGaA since 1987, including nearly 15 years as a customer service engineer in earth mover and industrial tires. He succeeds Matthias Engelhardt, who took charge of German operations at Commercial Specialty Tires this spring.

With customer solutions engineers on all continents and in all regions of the world, Continental is strengthening its direct contact and discussions with customers over the long term. The central pillars of technical customer service include technical consulting and services aside from just tire performance, continuous monitoring, and ongoing improvements to product performance in close collaboration with the company's R&D arm and warranty and complaint management.

Source: Continental Commercial Specialty Tires

Fecon, Inc. recently announced the appointment of **Bob Dieckman**, as new CEO replacing retiring CEO and company founder John Heekin.

Mr. Dieckman comes from a Hillenbrand subsidiary, Rotex Global, LLC, where he served in a variety of executive positions for 12 years, most recently as president. During his time with Rotex, sales grew over 300% through both organic growth and acquisition. Prior to joining Rotex, he was the CFO of Basco Manufacturing Company for 10 years.



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Ransome Attachments Brings the Ditch Doctor to the U.S.

Ransome Attachments has been named the first and only distributor of Ditch Doctor™ Attachments in the U.S. This unique hydraulic excavator attachment is designed for creating, restoring, and maintaining infrastructure drainage ditches.

The Ditch Doctor is the product of a resourceful Canadian specialty excavating company that was looking for an alternative to ditching with the conventional excavator-mounted bucket method. Owner and inventor Adam Fisher – a second generation contractor – is no stranger to innovation. He built 2 other attachments for long reach excavators to dredge marinas, harbors, and ponds before innovating the Ditch Doctor.

Mr. Fisher designed the Ditch Doctor to improve productivity and reduce operating costs in a more environmentally-friendly way. It essentially chews up material with cutting heads, breaks it down, and redistributes the spoils from a chute. The excavator operator has full control of the cutting depth and projection distance.

The Ditch Doctor reduces the time and costs associated with the conventional method. Instead of leaving a stockpile of dirt that must be hauled away or flattened with a bulldozer, it projects the material away from the ditch, allowing it to self-level.

It is also up to 3 times more productive in terms of ditching. Adam Fisher once pitted the Ditch Doctor against the bucket method on a 1 km-long project and calculated the costs and productivity. The conventional method produced 26 m/h, while the Ditch Doctor carved out 93 m/h.

The Ditch Doctor is also more environmentally friendly than the conventional bucket method because it creates a 2-stage ditch, which allows the vegetation to remain on slopes and an upper shelf as the rotary head carves out a U-shaped ditch below, unlike the bucket method that removes all beneficial vegetation and allows for further erosion. The 2-stage ditch reduces the velocity of water flow,

retains beneficial nutrients, creates a wildlife habitat, prevents sediments from washing downstream and causing problems, and requires less maintenance. This is also beneficial on farms and sites with high-quality soil because it allows the material to remain on site. It is not uncommon to see vegetation growing from the redistributed spoils in as little as 3 weeks.



From l. to r.: Adam Fisher of Ditch Doctor and Eric Ransome of Ransome Attachments. New Jersey-based Ransome Attachments has become the first distributor to offer the Ditch Doctor™ in the U.S.

The Ditch Doctor easily maintains buffer zones, which have been proven to reduce phosphates and nitrates into waterways.

"The Ditch Doctor improves productivity, reduces operating costs, and protects the environment at the same time," said Eric Ransome, owner of Ransome Attachments. "It's exciting to be able to bring that value to our customers across so many industries."

A patented detachable outer scroll case allows the Ditch Doctor to be used for dry

ditching, but it can also work in up to 1 m of water. The company plans to add additional scroll cases that can be swapped for different work tools, allowing it to become a multi-functional attachment.

The Ditch Doctor can handle any material, including dirt, sand, sludge, vegetation, ice, and even rocks. The attachment is designed to chatter upon hitting rock to notify the operator and can function as a bucket to move even the largest boulders from the ditch.

The Ditch Doctor is an ideal solution for farmers, drainage, land clearing, and excavating contractors, municipalities, transportation agencies, utility contractors, golf course property managers, oil and gas companies, land management companies, landowners, railroads, land conservation agencies, and property managers.

There are 2 Ditch Doctor models available, both of which are custom manufactured to fit specific makes and models of excavators from 5 to 20 t. Both include a quick attach and can be hooked up within a minute. The attachment itself is manufactured in Canada and the actual assembly and shipping is done by Ditch Doctor in its Nova Scotia shop.

Source: The Ditch Doctor™



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K 2019, the world's flagship fair for plastics and rubber

October 16 - 23, 2019
Düsseldorf, Germany

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October 23 - 26, 2019
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64th Canadian Technical Asphalt Association conference

November 24 - 27, 2019
Montreal, QC Canada

INFRA 2019

December 2 - 4, 2019
Montreal, QC Canada



Landscape Ontario's Congress

January 7 - 9, 2020
Toronto, ON Canada

The ARA Show

February 9 - 12, 2020
Orlando, FL USA

bautech 2020

February 18 - 21, 2020
Berlin, Germany

The Work Truck Show

March 3 - 6, 2020
Indianapolis, IN USA

CONEXPO-CON/AGG 2020

March 10 - 14, 2020
Las Vegas, NV USA

Atlantic Heavy Equipment Show

April 2 - 3, 2020
Moncton NB Canada

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April 1 - 4, 2020
Zaragoza, Spain

2020 North American Snow Conference

April 19 - 22, 2020
Cleveland, OH USA

Hannover Messe

April 20 - 24, 2020
Hannover, Germany

Expo Grands Travaux

May 1 - 2, 2020
Saint-Hyacinthe, QC Canada

CIM 2020 Convention

May 3 - 6, 2020
Vancouver, BC Canada

WasteExpo 2020

May 5 - 7, 2020
New Orleans, LA, USA

5th International Rental Exhibition (IRE) / APEX access show

June 9 - 11, 2020
Maastricht, the Netherlands

steinexpo

August 26 - 29, 2020
Homburg/Nieder-Ofleiden, Germany



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