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InfraStructures

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A Brief Word...

So the month of love and romance has passed by and hopefully you can remove the bandages soon, lol.

For those of you who are feeling forgotten and didn't get a valentine this year, fear naught, InfraStructures is here as ever. We'd never forget you, we love our readers too much.

We're at that time of year when passions turn to preparations for the pending thaw. Small rodents aside, February has been more March-like which likely means we're in for some mucky meteo but we'll be out the other side before you get the next issue.

The paving fleets are being dug out and dragged in for service, repair and overhaul. The snow equipment and operators are getting weary so change is in the air.

Our Editorial staff has been in the air also, zipping hither and thither to shows and events so that we can bring you the latest news and views. What you expect from Canada's Leading Industry Publication.

So with a cheery wave from a gloved hand as I dig out from this snow drift, here's looking forward to the arrival of the "Lamb".

Yum!

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On the cover: The Liebherr Group's stand at Bauma 2016.

Bauma is the world's largest and greatest show of its kind. The 2019 fair is expected to have a total floor space of 614,000 m², around 3,500 exhibitors and over 600,000 visitors from all over the world.

MAGNA TYRES GROUP VENTURES INTO CANADA AND THE U.S.

Due to immense successes in a large number of countries and industries, Magna Tyres Group is expanding its worldwide network of offices and distribution. Magna Tyres Group will start with a new office on the North American continent, in Canada. This opens up an entire new market which makes it possible for even more clients in Canada and the U.S. to use the premium

quality Magna Tyres products.

"We took a great deal of care in choosing this location for our new office (in Vaughan, Ontario). It will further strengthen our commitment to all customers in the region and is an opportunity for close daily cooperation," commented Michael de Ruijter, CEO of Magna Tyres Group.

The rapid growth in recent years made expansion necessary to provide support locally on a 24/7 basis. Clients in the area

will benefit from closer and even more personalized attention, while product availability increases because stocks can be locally maintained. The objective is to increase the market share, focus on improving customer relationships and satisfaction in this high potential region. The new office is the next step in the worldwide expansion of the already fastest growing OTR company in the world.

Alex Vitale has been appointed general manager and will lead the new office. He is an accomplished leader with 20 years of experience in general management, sales and marketing in the tire industry for some of the major A-Brands. With his profound knowledge of international business, broad knowledge of the tire industry, he is the perfect person to lead the Magna Tyres expansion into the North American Tyre market.

Source: Magna Tyres Group

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CONTINENTAL DRIVES DEVELOPMENT OF DIGITAL SOLUTIONS FOR CONSTRUCTION AND MINING SECTORS

Continental is actively driving the development of digital solutions for the construction and mining sectors of the future.

"The efficient and safe construction site of the future will not operate without digital mortar. Connected smart construction vehicles and machines are among the basic elements ensuring faster, safer and, above all, more efficient operations on construction sites," declared Hans-Jürgen Duensing, a member of the Continental executive board. "Construction sites are the starting point for future mobility. Roads have to be constructed, railway tracks laid, agricultural and forest tracks built and factories erected. The construction and mining sectors are therefore key industries and an indispensable part of our world now and in the future."

Continental will be exhibiting its current innovations, technological developments and services at Bauma in Munich, Germany, from April 8-14, 2019.

The company will be focusing on service and consultancy concepts allowing drivers, fleet managers and operators of construction sites, quarries and sand and gravel pits to measurably increase their productivity. The portfolio also includes predictive maintenance concepts for greater operational reliability, solutions for reducing

downtime and systems to enable drivers and fleet managers to navigate the flood of information.

All this is underpinned by sensors that monitor the fundamental components in machinery and vehicles. The company supplies assistance systems and solutions for monitoring surroundings in response to the trend towards fully automated vehicles and machines.

The customers benefit from the fact that Continental offers a one-stop shop for complete system solutions. Starting with the know-how for components such as tires and air springs, then moving on to sensors that monitor them and the electronic systems, software programming and connectivity solutions to process the data, right through to fleet management software and the driver's workplace where this data is processed and displayed.

Together, these yield comprehensive, groundbreaking solutions for efficient processes, a safe working environment and effective machine handling in the construction and mining industries.

Source: Continental

HATZ DIESEL OF AMERICA CHANGES NAME

Hatz Diesel of America, Inc. has officially changed its name to Hatz Diesel of North America, Inc. The company will now handle sales and service for the entire continent of North America including the U.S., Canada and Mexico as well as the United States Territories including Puerto Rico and the U.S. Virgin Islands.

"We feel that our name should accurately represent all of the customers which we serve and reflect our position within the worldwide organization of our German parent company: Motorenfabrik Hatz GmbH & Co. KG," states Mike Hartoonian, president and CEO of Hatz Diesel of North America.

Hatz Diesel of North America has realized considerable growth in the past years and to better meet the needs of its customers, the company has increased its customer service, engineering and support staffs as well as its distributor and dealer network. "Our goal is to offer superior customer service and provide personal attention to all those whom we serve throughout our expanded territory," continues Mr. Hartoonian.

Hatz Diesel is a worldwide leader in the manufacture of high-quality diesel engines from 3 to 78 hp that are used in industrial,

construction, military, marine, railroad, turf care, power generation, material handling, agricultural, mining, transportation, forestry and rental equipment applications.

Source: Hatz Diesel of North America, Inc.

JOHN DEERE IS READY TO RUN WITH A COMPLETE STAGE V LINEUP

John Deere Power Systems (JDPS) continues to lead its OEM customers seamlessly through the upcoming emissions

transition with a lineup of engines that have received Stage V certification. This includes its variable-speed engine families below 56 kW (75 hp) and above 130 kW (174 hp) as well as its constant speed engine families. The Industrial Stage V lineup from John Deere offers ratings from 36 to more than 500 kW (48 to more than 670 hp) with displacements of 2.9 l through the upcoming 13.6 l.

The Stage V technologies used on these

Truck-Mounted Concrete Pump With a Completely New Drive Unit



Liebherr will introduce the completely redeveloped 42 M5 XXT truck-mounted concrete pump for the medium range class at Bauma this year. One highlight is the unique Liebherr Powerbloc drive unit: Through the complete integration of all hydraulic switching and measuring elements, the 42 M5 XXT convinces with unique robustness, increased performance and especially quiet operation.

The new 42 M5 XXT complements the Liebherr product portfolio of truck-mounted concrete pumps for the medium range class with an allrounder with a modern design. Equipped with the popular 5-piece multi-folding mast, it is compactly built for the street and is proving to have a long reach at the construction site. The low unfolding height and outstanding slip characteristics of the 42 M5 XXT, paired with its great mobility, facilitates working in buildings.

Thanks to intensive detail work, the total weight of the device falls below 32 t without giving up the quiet and stable machine behavior typical for Liebherr. Many technical parts come from Liebherr's own component production, such as the new Powerbloc drive unit making its world debut at Bauma 2019.

All hydraulic switching and measuring elements have been completely integrated. This eliminates numerous hydraulic hoses as well as many other parts. The drive unit is therefore one of a kind in the concrete pump world. Special features of the new system are its robustness, high performance and quiet running. Furthermore, Liebherr has newly designed a highly efficient, semi-closed oil circuit, which powerfully and reliably supplies all drives with hydraulic energy. As a result, the oil volume could also be significantly reduced. This new Liebherr system combines the advantages of the proven open and closed circuits currently on the market, without their respective disadvantages.

Source: Liebherr

engines are built upon years of engine and application engineering expertise. As both an engine and machine manufacturer, John Deere boasts a remarkable 1 billion hours of global experience with diesel particulate filter technologies – this extensive knowledge is the foundation of the proven emissions solutions provided to OEM customers.

“Through each consecutive stage of emissions regulations, John Deere provid-

ed solutions that addressed key customer needs. These included increased uptime, low operating costs and flexible integration. The same applies to Stage V,” said Sandrine Couasnon, manager, marketing services and sales engineering for Europe, Africa and the Middle East at JDPS.

Stage V after-treatment technologies from John Deere are optimized for flexible integration and several offer reduced packaging and weight from previous Stage IV

solutions. And because the technologies are built on the same engine platform as current Stage IV solutions, the need for OEMs to re-engineer due to hardware or mounting changes is reduced.

“Our goal is to continue to provide a strategic advantage to our global OEM customers as we move into Stage V, just as we’ve done with prior regulation changes,” said Ms. Couasnon. “And with our worldwide service network of more than 4,000 locations, customers can find support wherever it’s needed.”

Learn more about John Deere Stage V after-treatment technologies by visiting JDPS’s booth at Bauma 2019.

Source: Deere & Company

European Distribution for John Deere 622GP and 672GP Graders



John Deere is introducing its popular 622GP and 672GP motor graders to the European market via the Wirtgen Group distribution network in Germany and France.

“We are excited to leverage our relationship with the Wirtgen Group to introduce John Deere construction equipment to a new market, further expanding our global footprint,” said David Thorne, senior vice president, sales & marketing, Worldwide Construction & Forestry. “Wirtgen’s stellar reputation for supporting customers, and large distribution network, allows us to serve these new markets well offering them powerful motor grader solutions in 2 priority countries.”

The introduction is a result of increased interest in John Deere earthmoving equipment following the Wirtgen Group acquisition in 2017. Understanding motor graders are heavily used in road building applications, the synergies between the Deere models and the Wirtgen portfolio, as well as the thriving French and German markets were determining factors in bringing the machines to the continent.

The European rollout focuses on the 6-wheel drive 622GP and 672GP models. The 622GP with a 3.66 m moldboard operates at a weight of 19,078 kg, while the 672GP with a 4.27 m moldboard weighs in at 19,976 kg.

“Today is an exciting day for the Construction & Forestry Division and we couldn’t be more thrilled to bring 2 motor grader offerings to the European market,” said Luke Kurth, product marketing manager, motor graders, John Deere Construction & Forestry. “Contractors will value a superior machine that is designed to handle tough jobs. With the highest power in the class, advanced features, and virtually unobstructed, all-around visibility from the cab, the 622GP and 672GP models offer increased productivity, uptime and lower daily operating costs.”

The machines will be on display at bauma 2019, April 8-14 in Munich.

Source: Deere & Company

KOBELCO EXPANDS DEALER NETWORK IN CANADA WITH NEW PARTNERSHIPS

KOBELCO Construction Machinery USA continues to expand representation in the Canadian market by adding Abi-Quip, Conaker Equipment, and Les Equipments Pinso Ltee to its growing dealer network.

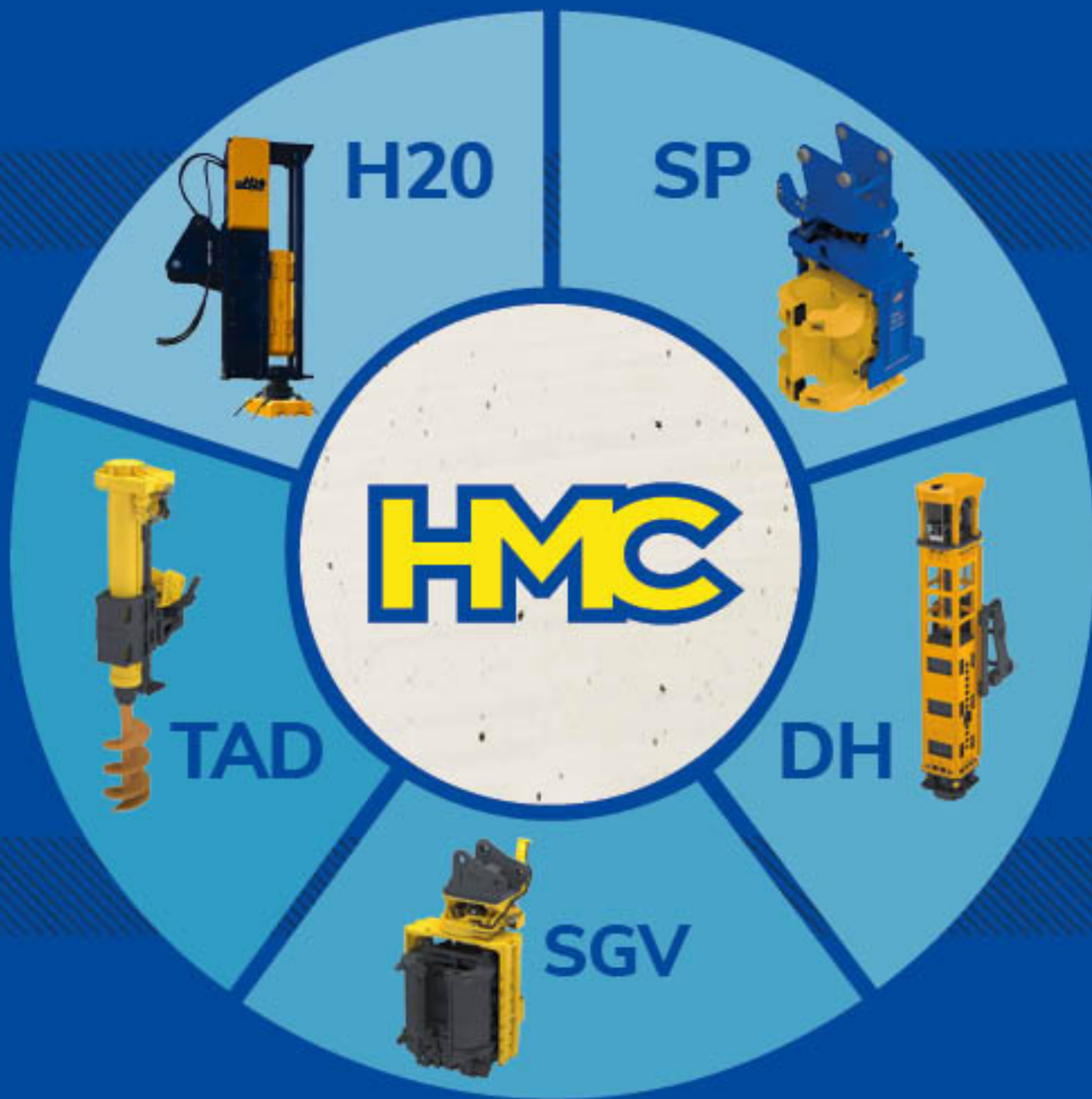
“We’re dedicated to providing customers with the value of industry-leading KOBELCO excavators through our nationwide dealer network,” says Jack Fendrick, COO/vice president at KOBELCO USA. “Abi-Quip, Conaker, and Pinso are top-notch Canadian dealerships that maintain strong commitments to delivering outstanding customer service. We’re certain they will each be a positive addition to the KOBELCO North American network, and we look forward to lasting partnerships.”

The staff of each dealership will be working closely with KOBELCO to gain the required sales and product support training to deliver on the KOBELCO promise of customer satisfaction. Each dealership will provide professional sales, rentals, parts, and service support on KOBELCO excavators in Canada.

Abi-Quip will represent the full line of KOBELCO excavators from their location in Val-D’Or, Quebec. They are a full-service heavy equipment dealership that delivers exceptional service to customers in the mining, forestry, and general construction industries.

Conaker of Calgary, Alberta is a family owned and operated heavy equipment dealership with 40 years of experience serving the construction industry. They are dedicated to providing customers with exceptional sales and service and will rep-

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Pinso will offer KOBELCO excavators for sale and rent from their location in Cowansville, Quebec. Their team exhibits an unparalleled commitment to excellence in customer service and is dedicated to delivering the best possible equipment, parts, and service.

Source: KOBELCO Construction Machinery USA

BROWN AND CALDWELL OPENS NEW OFFICE IN BRITISH COLUMBIA

Brown and Caldwell, a leading environmental engineering and construction firm, has opened a new, permanent office in the Metro Vancouver area to better serve clients in the region's municipal and private water and wastewater sector.

"This new office aligns with our vision

of expanding full-service solutions in the Lower Mainland while continuing our legacy of solving Metro Vancouver's most complex water and environmental challenges," said Brown and Caldwell's Bryan Paulson.

Brown and Caldwell's history in the Lower Mainland dates back more than 60 years, including the development of Vancouver's original sewerage plan, the Rawn Report, in 1953. In the decades since, the firm has delivered planning and engineering services on many of Vancouver's most complex wastewater challenges. Projects include the design of the original Lions Gate Wastewater Treatment Plant (WWTP) and the Iona Island WWTP in addition to numerous upgrades at the Annacis Island and Lulu Island WWTPs.

"Our local and established team is

committed to leaving a positive impact on the community as the region continues to prepare for population growth, regulatory changes, and climate and seismic risks," added Mike Thorstenson, Brown and Caldwell's Canada leader.

Source: Brown and Caldwell

HYSTER-YALE SELECTS DANA AS PREFERRED GLOBAL SUPPLIER OF DRIVE AND MOTION PRODUCTS

Dana Incorporated recently announced a strategic, multi-year supply agreement that positions the company as a preferred global supplier of drive and motion products for Hyster-Yale Group, Inc., the wholly-owned operating subsidiary of Hyster-Yale Materials Handling, Inc.

Under the terms of the agreement, Dana will leverage its broad design and engineering capabilities, expansive line of field-proven drive and motion technologies, global manufacturing and aftermarket footprint, customer-centric perspective, and expertise as a trusted top-tier supplier to support Hyster-Yale's long-term strategic initiatives.

The agreement encompasses a wide range of lift-truck vehicles sold under the Hyster® and Yale® brand names, including Class 1 through Class 5 forklift trucks, reach stackers, and container handlers.

Dana has earned numerous supplier awards as a trusted Tier-One supplier, including Hyster-Yale's "Certificate of Merit", "Preferred Supplier Recognition", and "Continuous Improvement Award", which recognizes suppliers who are actively engaged in quality improvement, have shown a significant or sustained improvement during the past year, and are committed to prevention of recurrence.

Dana is a leading supplier of Spicer® drive and Brevini® motion products for material-handling vehicles that are designed to work seamlessly and allow operators to engage, lift, and transport heavy loads with speed and precision.

Source: Dana Incorporated

BOBCAT ANNOUNCES NEW AUTHORIZED DEALER IN NISKU, ALBERTA

Bobcat Company has expanded its dealer network with the addition of Bobcat of Nisku as an authorized new and used sales, service, and parts provider of Bobcat® equipment.

Bobcat of Nisku's parent company,

Hyundai Adds RTI Equipment Solutions to Its Dealer Network



From l. to r.: Roy Tuzi, president RTI; Andrea Tuzi, general manager RTI; Gordon Plotkin, district manager HCEA CE; Dominic Dube, district service manager HCEA CE; Ted Steinkamp, parts marketing assistant manager HCEA.

Hyundai Construction Equipment Americas is pleased to announce the addition of RTI Equipment Solutions Inc. to its authorized dealer network for the Greater Toronto Area. RTI has been focused on heavy equipment service and transport for many years, and will be a valued addition to the Canadian territory. With this new dealership, Hyundai's North American network now includes over 70 dealerships operating in just over 150 locations, offering sales, service, and parts for the full line of Hyundai excavators, wheel loaders, compaction rollers and other construction equipment.

"Hyundai is very excited about this new partnership, which sets us up for immediate and long term success in what is considered to be among the most important market areas in Canada. RTI brings a strong background in the construction equipment industry with superior expertise in equipment maintenance and service spanning 3 generations," said Gordon Plotkin, HCEA district manager for Canada.

Hyundai sales, service and parts teams deliver regular product and service training to ensure dealer partners are able to provide top-caliber support to meet the growing business needs of Hyundai Construction Equipment customers.

Source: Hyundai Construction Equipment Americas

Calmont, began as a small vehicle leasing company in 1977. Since then, they have expanded to include multiple dealerships throughout Canada.

"We are proud of our knowledgeable and friendly staff as well as the quality products we have to offer," said Ben Sheehan, marketing manager of Calmont. "Owning a piece of Bobcat equipment will make our customers' jobs easier. We want them to leave the heavy lifting to our equipment."

The dealership will serve a variety of industries, including oil, gas, landscaping, agriculture and construction.

"Bobcat is a worldwide leader in manufacturing and distributing compact equipment," added Mr. Sheehan. "They have top-of-the-line machines with a name everybody knows."

Bobcat of Nisku is expected to serve South Edmonton, Leduc, Parkland, Wetaskiwin, and Ponoka counties.

Source: Bobcat Company

EPIROC AT BAUMA 2019

Epiroc will present a new set of innovative and productive offers at Bauma. Updated and new products that will help customers meet the demands of the future – all while saving time and money.

Longer service life, great flexibility and higher carrier utilization have been the essential fields of development for Epiroc's hydraulic attachment tool designers recently. Epiroc expands the offering by smart additions that save customer's investments, increase their productivity and carry out their work in the best possible way.

Epiroc will introduce pulverizer jaws for the CC 3100 Combi Cutter at Bauma, more models will follow during Q2 2019. Pulverizer jaws offer more applications with one cutter body, the utilization of the cutter is increased and rounds off the needs on smaller jobsites. Epiroc's Coupling and Positioning System (CAPS) makes it easy to switch between the jaw types on site to suit the work at hand. The full jaw range consists of Universal (U) jaws, Steel Cutting (S) jaws and Pulverizer (P) jaws.

The new CC 1600 Combi Cutter model is designed for carriers in the 13-23 t class. The stable cutter body features 2 power-

ful hydraulic cylinders with integrated speed valves for minimum cycle times and, in turn, minimum fuel consumption. Fully protected by piston rod guards, the cylinders deliver virtually constant closing force which remains high even when the jaws are almost closed. Two jaws moving independently eliminate displacement forces on the cutter and the carrier,

ensuring controlled demolition of unstable concrete walls, regardless of which jaw attacks the material first.

By redesigning the MG multi grapple range to make it even more robust, Epiroc is able to meet the increasing demands from customers, who face tougher jobsite conditions and higher utilization of grapples in their day-to-day work. The

HIDROMEK Is Ready to Take Center Stage at Bauma



HIDROMEK will exhibit its new products at Bauma 2019. The Turkish manufacturer will attract attention with its design-awarded machines, the new H4 series excavators, the new wheel loader and soil compactors as well as the new HMK 70 W electric excavator are going to take the center stage at Bauma 2019.

HIDROMEK was founded in Ankara in 1978. Backhoe loaders, hydraulic excavators, wheel loaders, motor graders and soil compactors are manufactured in its production facilities, including a new 1.2 million m² production facility in Ankara, which started production in 2017. Today, more than 45,000 HIDROMEK machines are running in more than 100 countries.

Offering high performance, HIDROMEK's new H4 Series excavators stand out with their operating speed.

HIDROMEK aims to specialize in electric vehicles. On the HMK 70 W electric excavator, not only the engine but also the entire system is different from the standard machines. With its design and easy maintenance, operating costs would be significantly reduced, and the 100% electric HMK 70 W is also much quieter.

On the HMK 130 CS and HMK 110 CS soil compactors, the operator has superior comfort in the cab which has been designed with the award-winning HIDROMEK properties.

The HMK 635 WL wheel loader features a powerful and environmentally-friendly Stage V Mercedes engine. The HMK 635 WL operates with high efficiency and low fuel consumption.

Source: HIDROMEK



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MG 1000 will be on display at Bauma and the entire range will be replaced step by step during Q2 and Q3. As a new option, to allow even better customization of the grapples, they can now be ordered with or without rotation device, to enable operation of the base units in combination with tiltrotators.

A cutting wheel option is now available for the ER/ERC 50 – ER/ERC 3000 transverse drum cutters. Precision is key when it comes to cutting narrow trenches for cables or pipes. Now trenches with a width of 55-250 mm and a depth ranging from 150 mm (ER/ERC 50) up to 700 mm (ER/ERC 3000) can be cut in one go.

Source: Epiroc

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CM LABS AT BAUMA 2019

CM Labs Simulations, developer of Vortex training simulators, will be releasing a host of new training technologies at Bauma 2019. Each element is designed to work independently, or as part of a total team learning solution.

CM Labs will be launching its new Augmented Reality (AR) application, which makes it possible for instructors to bring a virtual mobile crane right into the classroom, where trainees can interact with it, conduct walkarounds, and learn the fundamentals of machine inspection.

Once trainees are familiar with the equipment, they can get behind the controls of an equipment simulator and work through the built-in training curriculum, or focus on the development of specific operator skills.

Two training simulators will be on display at CM Labs' booth: the immersive Vortex Advantage and the desktop Vortex Edge Plus. Both simulators can run CM Labs' full catalogue of lifting and earthmoving training packs, including Mobile Crane, Flat-top Tower Crane, Luffing Tower Crane, Crawler Crane, Excavator, Wheel Loader, Backhoe, Dozer, Motor Grader, and more.

These simulators are designed to run independently, or as part of a unique tandem lift operation that will be on display for the first time at Bauma 2019, allowing 2 trainees to work simultaneously and cooperatively to complete a crawler crane lifting exercise.

In addition, CM Labs will be displaying its Signalperson Training Station, which allows a 3rd team member to provide hand signals to the operators, while a 4th team member can supervise the operation, or inject challenges using the Instructor Operating Station.

Source: CM Labs Simulations

NEXT RENEWABLE FUELS AND SHELL TRADING ENTER AGREEMENT

NEXT Renewable Fuels, Inc. and Shell Trading (US) Company have entered a long-term purchase and sale agreement for the purchase of renewable diesel from NEXT's planned Port Westward, Oregon facility.

Representing an investment of more than US\$1 billion (\$1.33 billion), NEXT continues to develop its Oregon renewable diesel facility with an expected capacity of 13.3 million bbl/y. Scheduled to open in 2021, NEXT will supply Shell and other partners with its alternative liquid fuels, satisfying end-user demand while also meeting both federal and state environmental compliance and fuel security requirements.

"We are pleased to be working with Shell on bringing our advanced renewable fuels to their customers. Shell and NEXT share a vision for a greener world through the advancement of renewable transportation fuels, giving consumers greener fuel options," said Lou Soumas, NEXT Renewable Fuels president. "We look forward to supplying Shell for many years."

NEXT renewable diesel is a second-generation advanced biofuel made from 100% renewable feedstocks including used cooking oils, animal tallows, and selected virgin seed and vegetable oils.

"As a drop-in fuel, NEXT's renewable diesel is a perfect fit with our existing fuels business and will allow us to integrate this advanced fuel seamlessly into our supply chain," said Kate

Andresen, Shell Biodiesel trading manager for the Americas.

NEXT selected the Port Westward site due to its strategic location at a deep-water site on the Columbia River, access to global feedstock supplies, and close transport to North American West Coast markets.

Shell Trading (US) Company operates in the U.S. as part of Shell Trading and Supply, one of the largest energy operations in the world, trading in crude oil, natural gas, LNG, electrical power, refined products, chemical feedstocks and environmental products.

Source: NEXT Renewable Fuels, Inc.

ASV NAMES 2018 DEALER AWARD WINNERS

ASV Holdings Inc. recently announced its 2018 dealer award winners. The awards honored top-performing and loyal members of its growing list of dealers at the company's annual dealer meeting.

ASV named Ontario-based Regional Tractor Sales as the 2018 Dealer of the Year due to the company's exceptional sales, performance and loyalty. The family-owned dealer took on the ASV line in 2005 and has worked closely with the manufacturer ever since.

ASV also presented CSTK of Kansas and Missouri with the Rookie of the Year award. The new dealer has gone beyond expectations in its market, developing a market strategy, driving sales and brand name awareness.

"ASV is only as good as our dealer network and we depend on every single dealer," said Justin Rupar, ASV vice president of sales and marketing. "We are proud to show our appreciation for these loyal dealers promoting the ASV brand promise in every aspect of their business."

ASV also presented awards for 20-year dealers. Recipients included Alberta-based Barda Equipment and Wisconsin-based Duffy's Sales & Rental.

Source: ASV Holdings Inc.

Generac Mobile Expands its VFLEX Canadian Generator Line

Generac Mobile's VFLEX technology delivers ultimate flexibility for Canadian customers. The VFLEX solution is designed to provide customers and users the ability to adjust the generator's output voltage in order to meet the electrical requirements of various Canadian provinces.



VFLEX diesel (CAN6) generator models feature factory-installed alternator windings that regulate output voltage up to 600 V. Users can easily switch among 208 V, 240 V, 480 V, and 600 V. No transformer is required. Six sizes of the new VFLEX power models/nodes are now available. These models feature Tier 4 final. In addition, CAN6 VFLEX generators from Generac Mobile also include standard cold weather components designed for reliable operation in extreme cold temperatures.

Source: Generac Power Systems

First Electric Loaders from TOBROCO-GIANT at Bauma



Customers worldwide have the demand for ecological and reliable machines that can carry out a wide variety of activities all year round. TOBROCO-GIANT offers the machines, technology and with an extensive dealer network the support for these customers.

At Bauma TOBROCO-GIANT will present its first fully electric loaders: the G2200E and G2200E X-TRA. The G2200E models combine the best of both worlds with the advantages of an articulated loader and near-silent operation and zero emissions. Making the compact loaders ideal for indoor applications or construction sites in urban areas.

On its 500 m² outdoor stand the Dutch manufacturer will display 13 of its latest models, from articulated loaders to telehandlers and skid steer loaders, along with a wide range of attachments.

Source: TOBROCO-GIANT

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Daimler at the 2019 Bauma trade fair in Munich

The 3 high-performance construction specialists go by the names Unimog, Zetros and Eonic. The Unimog with its unsurpassed off-road capabilities is a versatile construction machine.



The all-wheel-drive Unimog U 216 to U 530 models are highly specialized equipment carriers and can be combined with a wide variety of attachments and implements for all conceivable applications. The U 4023 and U 5023 models, meanwhile, are highly capable off-road professionals and can transport tools, equipment, materials

and crew to any operational site.

The Mercedes-Benz Zetros, a robust long-hood truck with all-wheel drive technology is suited to the toughest of off-road missions. Available with either



2 or 3 axles, this truck combines extreme off-road capability, sturdy technology and the load-bearing capacity of a regular truck. Accordingly, this model is used in open-cast mining, underground mining or other tough applications.

The Mercedes-Benz Eonic is a professional in inner cities and can also be

found in the construction industry in North America where it is sold under the Freightliner brand. The basis of the vehicle is its low-positioned "DirectVision" cab with low access, low seating position and



panoramic glazing – and thus optimum visibility of other road users such as pedestrians and cyclists.

For the Eonic, Brake Assist with pedestrian recognition, Lane Keeping Assist, cruise control and Sideguard Assist are all available.

Source: Daimler

Minnich Highlights Concrete Vibration Innovations at WOC

Minnich Manufacturing showcased its latest concrete vibration solutions at World of Concrete 2019. The manufacturer of concrete dowel pin drills, concrete vibrators and vibrator monitoring systems displayed the Stinger concrete electric flex shaft vibrator, M-Box high cycle vibration control solution, and Auto Vibe paving vibrator monitoring systems in Las Vegas.

"At Minnich, we're dedicated to helping concrete contractors and concrete paving superintendents maximize quality," said Rob Minnich, vice president of marketing for Minnich Manufacturing. "We were excited to display our concrete vibration innovations at the show, and will continue to bring products to the industry that support the findings of concrete research facilities across the country."

The Minnich Stinger electric flex shaft concrete vibrator is a 6.5 kg double-insulated universal motor that can drive the full line of Minnich vibrator shafts and heads from 19 mm (¾") to 63.5 mm (2½"). Available in a 15 A (115 V) version, it offers a more compatible speed range of 11,000 to

13,000 vibrations per minute (vpm) to meet today's concrete placement challenges.

The Minnich M-Box high cycle vibration control solution is an innovative control speed high-cycle power converter that enables high-cycle vibrator operators to control the speed/vibrations per minute (VPM) of up to 2 vibrators. The M-Box minimizes time and cost associated with patching structural concrete surface blemishes caused by excessive vibrator speeds.

The Minnich Auto Vibe vibrator monitoring systems for paving machines can monitor, control and program hydraulic vibrator speeds during the paving process for superior concrete surface results.

The Auto Vibe II monitors up to 62 hydraulic vibrators during the paving process, recording and displaying real-time data that can be used to ensure proper vibrator operation.

The Auto Vibe III has the added feature of controlling and maintaining the vibrator vibrations per minute (VPM) at the monitor instead of at the manifold. Once the VPM speed is set, the monitor communicates



with the manifold and automatically makes adjustments to maintain desired speeds.

Minnich also displayed its dust collection system for on-grade, on-slab, machine-mounted and utility dowel pin drills at the show. The Minnich dust collection system meets the requirements for dowel pin drills found in Table 1 of the OSHA final respirable crystalline silica standard when used with an appropriate filter.

Source: Minnich Manufacturing



Cropac Orders 7 Terex® Crossover 8000 Boom Truck Cranes

Cropac Equipment is adding 7 new Terex® Crossover 8000 boom truck cranes to its equipment inventory. As a top performing Terex Cranes distributor, Cropac has received significant interest from customers for versatile boom trucks and the Terex Crossover 8000 model is the preferred unit for many of those contractors. The new boom truck cranes will be available at Cropac's locations in Ontario, Quebec and Alberta.

"There has been a lot of positive momentum for the crane market over the last year," explained Bill Finkle, president of Cropac. "We've seen higher demands across the board for the Terex cranes we carry. Our customers love the build quality, power and performance of the Crossover 8000, which is why we've placed this order."

The Terex Crossover 8000 boom truck crane features a 38.4 m fully synchronous telescopic boom and has a 72.4 t maximum lifting capacity. The unit's fully propor-



tional controls allow the operator to define boundaries for boom rotation, lift and lower to ensure all crane movements are precise. Also, the boom truck's X-pattern outriggers are designed to offer maximum stability while still providing a small footprint so that the crane can be set up in tight areas.

Founded in 1977, Cropac is a leader in crane sales and support in North America

and worldwide. Headquartered in Oakville, Ontario, with branches in Quebec, Alberta and British Columbia, the company's knowledgeable and experienced staff, and devotion to customer service are what make this family business an international leader in the crane industry.

Source: Terex Corporation

The advertisement features a large excavator bucket in the foreground, with a stack of Quard wear plates in the lower right. The background shows a construction site with a large excavator. The text "Quard WEAR PLATE" is prominently displayed in the upper left. On the right side, there is a blue vertical banner with the text "SUPERIOR WORKABILITY FOR INCREASED PRODUCTIVITY" and a "bauma" logo. Below the logo, it says "VISIT US! HALL A6, STAND 333" and "ALSO PEOPLE HAS COME TO OUR VISITORS AREA" with a Canadian flag. At the bottom right, there is an "NLMK" logo.

Bucket Manufacturer Winkelbauer Get Tough on Wear

Winkelbauer GmbH is an Austrian supplier of heavy-duty buckets and other construction equipment. The company is an early adopter of SSAB's new wear-resistant steel grade Hardox® 500 Tuf. Upgrading to this material allows Winkelbauer's customers to load more and extend the service life of their equipment.

Hardox® 500 Tuf is an abrasion-resistant (AR) steel that makes the perfect fit for the high-performance buckets manufactured by Winkelbauer. Hardox® 500 Tuf is the first 500 Brinell (HB) wear plate with properties on a par with structural steel. It delivers high strength, extreme hardness and guaranteed toughness in a single wear plate. The material offers a 70-100% longer service life compared to conventional 400 HB AR steel, and it features improved dent protection.

"We're now telling our customers, you have 2 favorable options: use Hardox® 500 Tuf to make the bucket lighter, while the service life remains as long as you're

used to from a Winkelbauer bucket, or use Hardox® 500 Tuf in the same dimensions as before to get a considerably longer service life and reduced costs thanks to longer service intervals," says Winkelbauer's CEO Michael Winkelbauer.

By using Hardox® 500 Tuf in a thinner dimension, the new generation of Winkelbauer heavy-duty buckets has 10-16% less tare weight with the same service life as the previous generation. This allows for an increase of loaded volume by 6-10% at the same total weight.

To meet a particular customer's request, Winkelbauer designed a bucket that allows the operator to load a truck to its maximum capacity of 24 t with only 3 turns. This saves 25% of the time

required for a loading cycle, and the operator knows that 3 full buckets are enough.

Hardox® 500 Tuf combines the best properties from the Hardox® 450 and



Michael Winkelbauer is the third generation to run the family-owned company Winkelbauer GmbH. (©Winkelbauer).

Hardox® 500 wear steel grades. It has a guaranteed impact energy of 27 J at -20°C and, for 20 mm plate, a typical value of 45 J at -40°C. It also has an unusually

WOLFFKRAN MORE at Bauma 2019

WOLFFKRAN will present itself under the motto WOLFFKRAN MORE at bauma 2019. MORE – Manufacturer, Operations, Rental, Expertise – reflects the entire range of services and the identity of WOLFFKRAN from the manufacturer and rental company to the service provider for high-quality tower cranes. This year, visitors cannot only expect to see new cranes from WOLFFKRAN, but also gain exciting insights into many other areas of business and complementary products as well as services. They make the company what it is: a one-stop-shop provider of comprehensive lifting solutions for construction sites around the world.

At bauma, WOLFFKRAN will impress its visitors with a strong trio: the new WOLFF luffing crane 133 B, the BIG WOLFF 1250 B and the latest WOLFF 6020 clear crane. WOLFFKRAN will present its new hydraulic luffing jib crane, the WOLFF 133 B, which is ideally-suited for downtown city construction sites and completes the WOLFF luffing jib crane range in the lower load moment range. The youngest WOLFF will be presented at bauma on a City Portal

and with an external climbing system. He will be joined by the largest member of the WOLFF luffer family, the BIG WOLFF 1250 B with a jib radius of 80 m and a lifting capacity of 54.4 t. Although, it has been seen on numerous construction sites around the world since its market entry in 2009, this will be the first time the WOLFF 1250 B presents itself to the general public at a trade show. The WOLFF 6020 clear, the latest member of the clear family in the 140-m range, completes the WOLFF trio and will be accessible to visitors.

WOLFFKRAN MORE stands for a comprehensive service offer that goes far beyond the construction of cranes. Not only does it cover the entire bundle of services related to the rental business, but also various complementary products related to tower cranes. In this sense, WOLFFKRAN will exhibit a service



van that fair visitors can enter to view all equipment and tools. Furthermore, visitors can expect an informative film about the WOLFFKRAN rental business, showing all steps from the customer enquiry to the crane assembly on the construction site. In

narrow hardness window of 475-505 HBW. The estimated relative service life for Hardox 500® Tuf is 85-100% longer than for Hardox 400® according to SSAB's wear calculation software WearCalc, based on sliding wear with granite.

Michael Winkelbauer is impressed not just by the quality of the new steel grade, but by SSAB's unwavering commitment to support and service life.

"We would generally need a timeframe of 1-2 years for a conventional test of a new material. We don't have that time, which is why we need a partner we can trust and rely upon. The depth of service that we have enjoyed from SSAB employees from the very outset is one-of-a-kind, and this level of quality cannot be found in any competing products on the market. When SSAB releases a material, we know for sure it delivers as promised," said Mr. Winkelbauer.

The welding and machining of Hardox® 500 Tuf can be performed with the same



kind of equipment used for other Hardox® grades. Bendability recommendations are similar to those for Hardox® 450.

"Before going into production, we have naturally experimented with the material and tested it in welding. Since it's important to reduce welding seams in order to minimize production costs and improve performance, we have analyzed

wear patterns and modified the design and construction of our buckets to make best possible use of the mechanical properties offered by Hardox® 500 Tuf," adds Michael Winkelbauer.

To learn what Hardox® 500 Tuf can do for your equipment, drop by SSAB's booth at Bauma 2019.

Source: SSAB

addition, WOLFFKRAN will be presenting further elements of its service portfolio, such as the WOLFF Link remote data transmission tool and the WOLFF Onsite accessories division. Finally, WOLFFKRAN will also introduce the WOLFF Crane Configurator which allows customers to put together their crane online according to their needs.

THE LIFTING LOUNGE – POWERED BY WOLFFKRAN

Just in time for bauma and as a further "bonus" WOLFFKRAN is launching the "Lifting Lounge", a club dedicated to crane operators and professionals. Thus, an online portal gives club members the possibility to exchange ideas, pictures and experiences. In addition, club members have access to an expert as well as to a health and safety forum and can benefit from special advantages such as member events and discounts on the merchandise range.

Source: WOLFFKRAN International AG



Gilbert continues to expand in the European market. After their presence at Intermat Paris in 2018, the Gilbert Grizzly Multigrip will be presented for the first time at Bauma 2019 in Munich, Germany, from April 8-14. As the world's leading construction machinery trade fair, Bauma is a unique opportunity for Gilbert to promote its line of vibratory pile driver to European and worldwide contractors. The advantages of the Gilbert Grizzly Multigrip will be presented through live demonstrations during the whole event. Visitors will be able to notice its great versatility and ease of operation.

Source: Gilbert

Soilmec at Bauma, Key Player in Ground Engineering

Soilmec will welcome Bauma visitors with comfortable reception areas. The Soilmec booth will allow visitors to discover the many advanced technologies to meet the challenges of foundation and ground engineering, as well as get a first-hand look at some of the new products that will be introduced on the market.

The new SR rigs have been designed to improve their productivity and operating flexibility to an ever higher degree, in addition to operator comfort and safety. The new rigs are fitted with more powerful and lightweight rotaries, powerful diesel engine and increased pull up value compared to prior models. The new generation of SR rigs also have a new winch version pull down system featuring a standardized and simplified design to further improve safety and efficiency. Switching from the cylinder to the winch version is a quick procedure that boosts the multifunctionality and adaptability to different applications. The new generation SR line has also seen a

reduction in weight but an improvement in performance thanks to the use of high-strength steels and a new antenna design with standardized section.

The SR125 High Tech platform brings one of the winning concepts from the automotive industry to this market for the first time. Customers can choose a model and then create the rig that best suits their needs. Four different models built on the same base machine can satisfy the most diverse needs through a plug&play system. Four models can be designed for all drilling and soil consolidation technologies, by changing diameters and design depths, extraction force, and weight in transport configuration. The combination of new design and the utmost care for the space inside the machine and the arrangement of power units lead to a significant reduction in noise emissions, making them suitable for use in densely populated areas.

The new micro-drilling rigs are the outcome of Soilmec engineering expertise

aimed at increasing performance, safety and innovation. The new drilling rigs stand out for an extensive series of movements which make it possible to work in various positions and to perform lateral movements in total safety. Thanks to innovative kinematic mechanism, the machines can also operate parallel to the tracks. The new SM drilling rigs are designed to be powered by either Tier 3 engines or the new Tier 4 engines boasting high performance and low emissions in addition to extreme ease of maintenance. Thanks to a wide range of rotary heads, clamp/joint breakers and modular antennas with varying travel of the rotary heads, the new models will be suited for an extremely varied range of working applications and technologies.

The Soilmec SM-22 is an evolution of the historic PSM-1350 and SM-20 models that overall have sold more than 300 units worldwide, and have been completely redesigned to ensure high efficiency and productivity levels on site together with

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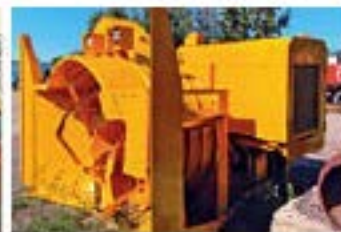
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1997 RPM TECH for snow depot, Cummins 475 hp engine, 3600 h..... P.O.A.



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



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



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

the highest safety standards. Thanks to its modular design it can be easily configured in different single rotary fittings, double rotary, top-hammer and vibro-rotary to carry out consolidation, micropiles and anchors with different drilling technologies, direct circulation, reverse circulation, DTH, CFA, jet grouting.

Bauma 2019 will also see Soilmech exhibiting the new Tiger SC-135 hydromill. Soilmech's tried and tested technology has been further refined to offer the most advanced technology available for this type of equipment.

The new SC-135 Tiger is designed to perfectly suit the jobsite, allowing operation in a wide range of working radius and module rotations. The equipment features several improvements, especially in terms of safety and oil contamination, which are the result of years of drilling experience. This equipment encompasses all the best ideas put forward by jobsite experts who use the hydromill daily to improve

control, performance and reliability. One feature includes a patented hydraulic system dedicated for cutting module and base machines with the filters installed directly on the main lines to avoid any possible breakdown due to bentonite contamination.

The hydraulic swivel for $\pm 90^\circ$ module rotation, the new Cat C27 diesel engine and different winders design solutions are suitable for job sites up to 150 m depth, and guarantees the highest performances in various conditions. The high depth vertical sensor, the independent mobile flaps and the DMS on board complete with the 3D graphic print out panel options means verticality control as never seen before.

The SC-135 Tiger presents a new safe anti-falling system, handrails and ladders,



lashing points, remote control boards and reduced speed mode in order to carry out the main assembly/disassembly operations and maintenance procedures in safe conditions. Lastly, this equipment has been designed for a modular assembly, with a max transportation weight of 45 t.

Source: Soilmech Spa

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Continental Conveyor Belts Working Flat Out on MegaTunnel Project in Sweden

Conveyor belts designed by technology company Continental are being used to transport rubble from one of Sweden's biggest infrastructure projects: "Förbifart Stockholm" (Stockholm Bypass).

Situated to the west of the Swedish capital, the bypass has been under construction since 2015. Most of it is being built underground, and it is intended as a north-south link to reduce the volumes of traffic passing through the center.

HeidelbergCement's aggregate company Jehander is using Continental quality solutions at its Lötén quarry near Stockholm to enable rubble from the megatunnel to be reused for road construction.

The number of city dwellers is growing exponentially across the globe. This urban growth fever has many consequences, including lack of space, limited living space, congested road networks resulting in gridlock and poor air quality – and is a common problem for megacities as well as for Stockholm.

About 20% of the Swedish population is currently living in the Greater Stockholm area. That is more than 2 million people – and it is the most rapidly growing city in Europe, according to the Swedish Chamber of Commerce. What is more, around half a million of Stockholm's residents are commuters.

The new 21-km Stockholm Bypass highway link is being built on the outskirts of the capital to cope with the city's continuous growth and make everyday life easier for residents by reducing traffic jams and improving air quality.

More than 18 km of the bypass are up to 80 m below ground level and pass under Sweden's 3rd-largest lake (Lake Mälaren) in 3 places. Once the bypass opens (scheduled for 2026), as many as 11,000 vehicles an hour (145,000 vehicles a day) will pass through the 2 separate tunnels traveling on 3 lanes in each direction.

It would be easier to build an over-ground system of routes and bridges. But Sweden is a leader in sustainable urban planning and is very focused on environmental preservation – so constructing a tunnel is the best approach under these circumstances. The self-confessed goal of Sweden's Ministry of Transport is also to

complete the project creating the smallest possible CO₂ footprint in the process.

Constructing megatunnels like the Stockholm Bypass project generates a lot of rubble. A series of conveyor belt systems are being used to transport the extracted rock to 3 temporary ports that have been set up for the project.

The rubble is taken across the waterways by inland vessels from the construction site in Stockholm to Jehander's quarry in Lötén. Transportation by sea has proven to be a much more efficient mode of transport than using truck fleets. Ships can carry between 1,500 and 3,000 t of rock per load, whereas trucks can manage only 35 t. As many as 4 fully-loaded ships a day arrive in Jehander's port.

The rubble is then reused as concrete mostly for road construction, or is used to build houses and office buildings in Stockholm and the surrounding area. But first the rock has to be washed, crushed, and treated at Jehander's quarry site. The company operates 6 strategically-placed quarries in the Stockholm area. This is not surprising, because if there is one thing the growing city needs it is construction material.

"Here at Lötén quarry, our textile conveyor belts are currently working at full speed as a result of the major bypass construction project," explained Continental's Daniel Grimes. "They have proven to be an exceptionally reliable solution on numerous projects that building materials company HeidelbergCement and its subsidiaries have worked on in Sweden as well as on projects all over the world."

"So far we have taken roughly 7% of the total 5.5 million t of rock that need to be processed out of the tunnel," added Niclas Pettersson at Jehander. "For this undertaking we can count not only on the quality and long service life of Continental's conveyor belts, but also on the

smooth operation of the systems. Service plays just as big a role as the high-quality products and systems in our longstanding partnership."

Service partner Continental's tight-knit network means that it can offer its customers a local service with everything from a single source – from technical advice, extensive planning and engineer-driven development all the way through to manufacturing, installation, commissioning,



Daniel Grimes from Continental and Per Åsander from Jehander pictured at the company's quarry, where Continental conveyor belts are currently working flat out.

Photo: Continental/Börje Svensson

maintenance and monitoring for complex conveyor systems and delivery of conveyor belts and components.

Continental has a suitable conveyor belt in its range to meet customers' construction requirements – whatever they may be. Steel cord conveyor belts are suitable for particularly high-stress transportation requirements, and corrugated-sidewall belts, which take up very little space, are ideal for building suburban rail networks. They emit very low noise levels, which is especially ideal in cities. They can convey bulk material at vertical angles and lifting heights of 400 m and clear away up to 6,000 t/h of rubble. Conveyor belts also have clear advantages to trucks when it comes to tunnel construction. Using them means that no extra exhaust systems have to be installed during the tunnel works, because Continental's system solutions do not produce any emissions.

Sweden demonstrates its capacity for innovation time and again with construction

projects like the bypass. This fact is also confirmed by this year's Global Innovation Index in which Sweden is ranked 3rd out of a total 126 economies, behind Switzerland and the Netherlands.

Continental products are also passing the acid test for the tunnel expansion part of the project. Stockholm is built on top of solid rock, which poses some real challenges for tunnel builders.

Drilling equipment from Epiroc, a leading productivity partner for the mining, infrastructure and natural resources industries, is being used for this purpose as it is able to penetrate the hard rock to drill the blast holes. It can cover transverse sections of rock upwards of 100 m², which makes the process as economical as possible.

The drill rigs use as many as 3 extension arms, which places a huge strain on the tires when the machines are in motion. That is why the drilling machines are fitted with Continental DrillMaster premium tires.



High cut resistance, good traction and stability are qualities that are simply essential for tires under these working conditions. The Continental DrillMaster with its V.ply design is the perfect choice here.

A highly cut-resistant rubber compound protects the carcass of the tires in environments where there is freshly blasted rock. The tire carcass is also specially equipped

for the heavy loads and its innovative zig-zag tread design features a maximum number of gripping edges in all directions. These features allow the machines to cope with extreme gradients and downhill slopes as well as to undertake cornering maneuvers safely.

Source: ContiTech

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Eastern Farm Machinery Presents the M3 Mixing Bucket

The concrete mixing bucket is the best solution to manufacture concrete at any time, where it is required. It is available in sizes from 100 l to 1980 l, suitable for skid steer loaders, backhoe loaders, wheel loaders and hydraulic excavators.

The concrete mixing bucket is equipped with a bottom and helix made of HB400 wear-resistant steel and a fixed, rounded, safety grill with bag breaker. The bottom opens hydraulically using a cylinder with a covered rod. An unloading pipe insures the precise placement of the concrete.

It comes with an electric valve, hydraulic hoses, an electric connection kit, flat face couplings (only for skid steer loaders) and attachment to the machine.

The M3 Mixing Bucket side unloading unit represents the natural progression of the traditional mixing buckets in central discharge with respect

to on-site safety protection. The double mixing shaft, with bolted -on wear parts for easier maintenance, allows the operator to obtain high quality concrete quickly and without having to reverse the direction



of mixing to avoid the accumulation of material on the sides.

The new double sealing system and the new coupling system 3-ring transmission make it possible to mix and discharge any kind of product in a short time on the jobsite. Heavy-duty hydraulic motors,

now integrated into the upper tube and protected, work in any condition providing unmatched torque with the direct transmission.

Also available is a weighing system



with dedicated software that allows, once loaded with inert material, to dose the correct amount of water and cement in order to obtain the required concrete.

Source: Eastern Farm Machinery Ltd.

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ALLU to Launch and Demonstrate New Products, Solutions at Bauma 2019

ALLU will be proudly exhibiting and demonstrating equipment from its Transformer, Processor and other equipment ranges at bauma 2019, April 8-14 in Munich, Germany. ALLU will be using the show to exhibit and demonstrate leading models in its ranges, outline new features of the equipment, and launch its latest developments aimed at further enhancing customer business operations.

The TS blades are a modern development for the screener / crusher market, with ALLU set to deliver new levels of efficiency and productivity with the new blade variations. The patented, unique TS blade structure has been developed by ALLU, which has long been a pioneer in techniques of this kind. This new blade structure will further enable customers to utilize their ALLU Transformer in more than one way.

The ALLU Mobile App is the latest development of ALLU's state-of-the-art



communication system. It provides an intelligent digital solution for customers and operators to obtain accurate and timely operational information, thereby maximizing safe and productive use of ALLU equipment. Through easier and improved contact functionality, customer support is also enhanced through the new features of the app.

The ALLU stand will be located in the open area north of the extensive show ground, right next to the northeast

entrance. The purpose-designed stand will enable ALLU to show visitors how ALLU equipment and solutions are able to transform business operations, delivering improved productivity, efficiency and profitability. The entire range of Transformer models, from the smallest DL-Series to the large M-Series will on display, and, in addition, the stand will show the ALLU Processor 500 HD.

Source: ALLU Group Inc.

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Palazzani Will Be at Bauma 2019 With Big News

Palazzani R&D department is working on new machines, aiming to impress all visitors at Bauma 2019.

The Italian manufacturer will introduce a new model of the Spider Lift, a machine with telescopic boom and telescopic flying jib, entering the existing large range from 17 to 52 m and available in both crawler and wheel version and bi-energy (diesel+electric) standard power option, as well as ECO and hybrid power option with all possible battery choice (lithium, gel and lead-acid).

The new model incorporates several high-tech new features such as telematics – the Palconnect kit, based on cloud technology – to manage the man/machine interconnection for all operations and information regarding fleet management, as well as troubleshooting and preventive maintenance.

Fleet owners or operators will be able to localize the unit through the GPS, track driving routes, create jobsite parameters

and receive information, reports and inspections alerts from a smartphone, tablet or personal computer.

The telescopic boom is made in high strength “Strenx” steel from SSAB and designed with a new and innovative shape to grant lightness and structural strength.

The machine is simple to use thanks to the automatic limiting system. The working area automatically adapts to the position of the stabilizers and the load in the basket without any intervention from the operator.

TWO SPIDER LIFTS ON WHEELS FOR THE XIQU CENTRE IN HONG KONG

The Xiqu Centre is the first major performing arts venue and the prestigious new home for traditional Chinese opera in the West Kowloon cultural district, Hong Kong. It is a world-class performance venue that respectfully embraces the cultural richness of Chinese opera within a magnificent contemporary expression, making it accessible to new audiences and



future generations as it continues to thrive and evolve with modern technology.

The 8-story building has a total area of 28,164 m² and houses the Grand Theatre, with 1,073 seats. Flanked by 2 outdoor sky gardens offering visitors panoramic views of Victoria Harbour, the elevated theatre creates space beneath for a 200-seat Tea House theater, rehearsal studios, education and administrative spaces, lecture rooms






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and retail areas overlooking the naturally-ventilated inner courtyard.

The building's striking design, created by Revery Architecture (formerly Bing Thom Architects) and Ronald Lu & Partners, was inspired by traditional Chinese lanterns and blends traditional and contemporary elements to reflect the evolving nature of the art form.

Stepping through the main entrance, shaped to resemble parted stage curtains, visitors are led directly into a lively atrium with a raised podium and space for presenting the rich and ancient culture of Chinese traditional theater.

A RAGNO TSJ 27/R and a RAGNO XTJ 43/R have been delivered to Xiqu Centre in January by Proficiency Industrial Product, Palazzani dealer in Hong Kong. Their working heights of respectively 27 m



and 43 m make them perfectly-suited for indoor/outdoor cleaning and maintenance of the entire building. Their lightness (only 4,580 kg and 10,900 kg), stowed dimensions and wheel version allow them to easily transfer everywhere with great maneuverability and narrow turning radius, without damaging the delicate floors.

The machines can work indoor or outdoor, thanks to the bi-energy power option (diesel engine plus AC electric motor).

Source: Palazzani Industrie

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«Productivity and safety are the most important. Merlo required an adaptation but they are the only one good enough for us. We just bought our 18m machine.»



Sylvain Deschênes,
Construction Sorel Ltée.

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AORS Municipal Public Works Trade Show

The Association of Ontario Road Supervisors (AORS), together with Chatham-Kent Road Association, will be hosting the Annual AORS Municipal Public Works Trade Show, June 5-6, 2019, at the Bradley Centre in Chatham, Ontario. It is the largest of its kind in Ontario with between 200 and 300 exhibitors of public works products and services, and upwards of 2,000 participants.

This 2-day trade show provides an opportunity for public and private sector public works employees to share information and technical developments in the materials, services and equipment required to build and maintain municipal roads and other core infrastructure.

The exhibitors showcase products and services for core public works infrastructure including road and bridge construction, maintenance and rehabilitation, building maintenance, facility management, communications, design/engineering, emergency disaster management, equipment/fleets, GIS/GPS, internet technologies, parks & grounds, storm water/flood control, municipal surveying, traffic and pedestrian control, transit, underground locating utilities, wastewater collection and treatment, water treatment, public works staff training and education.

Visitors to the trade show include a broad cross section of municipal public works professionals, including:

- Public Works Directors, Superintendents and Managers;
- Directors/Managers of Operations and Operations Personnel;



- Fleet/Fleet Safety Managers;
- City and County Engineers;
- Consulting Engineers;
- Construction Directors/Managers;
- Solid Waste Managers/Coordinators;
- Public Facilities/Grounds Directors and Managers;
- Water Services Directors/Managers;
- Transportation Directors/Managers;
- Private Contractors/Area Maintenance Contractors.

The Municipality of Chatham-Kent and the Chatham-Kent Road Association look forward to welcoming exhibitors and delegates to the region, and encourage everyone to enjoy the many attractions on offer. See you in June!

Source: Association of Ontario Road Supervisors (AORS)



Dana Launches Spicer® TE50 Powershift Transmission for Large Underground Mining, Construction Vehicles

Dana Incorporated recently announced the development of the Spicer® TE50 powershift transmission, which is designed for large load haul dumpers, trucks used in underground mining, as well as wheel loaders. Engineered for vehicles from 400 to 600 kW (544 to 816 hp), the Spicer TE50 transmission offers superior performance through improved fuel efficiency, smoother shifting, more precise vehicle handling, and optimized braking. The transmission will launch with vehicle manufacturers in the second half of 2019.

"As the market for mining and construction vehicles moves toward larger vehicles, demand is growing for advanced technologies that support greater productivity without sacrificing precise handling," said Aziz Aghili, president of Dana Off-Highway Drive and Motion Technologies. "The Spicer TE50 transmission delivers a robust solution that meets the performance requirements of heavy-duty, high-power applications that operate under some of the most challenging conditions in the

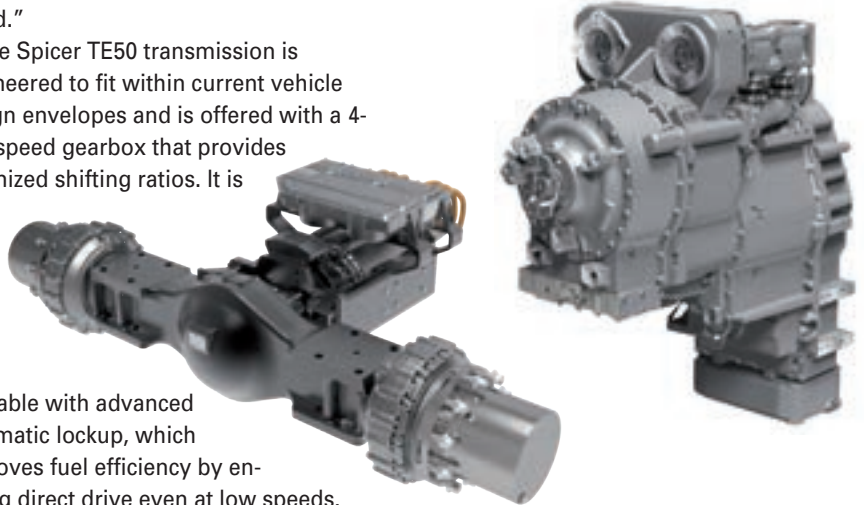
world."

The Spicer TE50 transmission is engineered to fit within current vehicle design envelopes and is offered with a 4- or 8-speed gearbox that provides optimized shifting ratios. It is

available with advanced automatic lockup, which improves fuel efficiency by enabling direct drive even at low speeds.

An integrated, automatic retarder reduces brake wear and enables smoother, quieter braking. Dana's new transmission is also equipped with 3 heavy-duty, auxiliary pump drives.

Visitors to Dana's booth will also see new electric drivetrain solutions for off-highway vehicles, including the Spicer® Electrified™ e-Axle and e-Gearbox. These



technologies enable electrified propulsion within established vehicle architectures by leveraging the company's industry-leading portfolio of motors, inverters, and controls. Dana will debut its electrified drivetrain solutions alongside e-Propulsion technologies from the SME Group, which the company acquired earlier this month.

Source: Dana Incorporated

Hatz at Bauma: Innovative, Customer-Oriented, Reliable and IoT-ready

At Bauma 2019 in Munich, Germany, Hatz will focus on its customer-, application- and service-oriented strategy and present the world's first electronically-controlled fuel injection system and digital control unit for single-cylinder diesel engines in the industrial sector.

In doing so, Hatz is the first to bridge the gap between today's mechanically-controlled engines and the requirements of modern, digitalized companies. With its E1 technology, Hatz enables light equipment, mobile lighting towers or generators, for example, to be propelled into the era of the Internet of Things (IoT). The preconditions for digital solutions in this equipment class are thus achieved for the first time. With the technological basis, the phase of solution adaptation to the needs of machine manufacturers and owners as well as the international service organization begins at Bauma.

With the E1 technology, Hatz continues its tradition of innovative developments, which the engine specialist has demonstrated most impressively since the start of the 20th century. This includes, for example, the flat seat injector (a significant development in the history of diesel engines), the first diesel engine made of light metal, the progress achieved towards the world's most powerful single-cylinder diesel, 90% sound insulation and the first industrial diesel following the downsizing principle.

"In all these developments, the quality and ease of handling of the engines are harmonized with the needs of the customer and the user. With our new E1 technology, Hatz offers the platform for the next logical step, for the first time integrating machines with small engines into the advancing world of digitization," says Bernhard Richter-Schützeneder, director of sales and marketing at Hatz.

In addition to the air-cooled B and D-series with E1 technology up to 12 kW (16 hp), the flagship 3H50TICD and 4H50TICD water-cooled H-series up to 55 kW (74 hp) are enabled for integration into IoT platforms.

Also, the engines in the mechanically controlled B, D, G, L and M-series are compliant with EU Stage V and EPA Tier 4 final. Consequently, Hatz offers a complete



range of engines for use in countries with strict emissions regulations.

Another Hatz highlight at Bauma is the new HDS diagnostics solution for electronically-regulated engines. HDS offers operators and partner companies a

reliable and convenient way of recording engine data, as well as rapid maintenance and diagnostics, including repair and troubleshooting instructions.

Source: Motorenfabrik Hatz GmbH & Co. KG

Yanmar Develops Industrial Gas Engines

Yanmar has developed gas-powered industrial engines that utilize LPG (liquid petroleum gas) and meet EPA Tier 2, CARB Tier 4 and EU Stage V emissions regulations. Adding the clean burning and quiet industrial engine models, 45 kW (60 hp) 4TN88G and 63 kW (84 hp) 4TN98G to its lineup, Yanmar is ready to better meet the diverse needs of its customers. Furthermore, Yanmar has plans to introduce bi-fuel specification models that can run on both LPG and gasoline.

Gas engines produce very little particulate matter, and are comparatively quieter than diesels. This makes them ideal for work indoors and in enclosed areas, where environmental concerns are a major consideration.

Yanmar has more than 30 years of experience working with gas engines. This long-earned experience together with its deep knowledge of industrial diesel engine technology has allowed the company to develop a proprietary gas combustion system for high output, fuel efficient and compact engines that display the durability and reliability required of industrial applications and deliver new value to its customers.

Yanmar can now provide customers with a one-stop solution, whereby Yanmar can offer either a diesel or gas power source in one-stop sales contact, with maximum compatibility to the customer's equipment.

Source: Yanmar



MAN Engines Will Launch Its D1556 Engine for Construction Machinery at Bauma

MAN Engines will be exhibiting the new 9 l D1556 diesel engine for construction machinery at Bauma.

This l6 power unit delivers between 205 kW and 324 kW (275 hp and 434 hp). Its highest power variant achieves a maximum torque of 1,970 Nm (1,453 lbf ft) between 1,150 rpm and 1,300 rpm. And with a dry weight of just 860 kg, it is the lightest off-road engine in its displacement class.

"With the D1556, MAN Engines engineers have succeeded in developing an engine with a high power-to-weight ratio and compactness that is perfectly suited to the requirements of off-road applications. In addition, as the first 9.0 l engine from MAN Engines, it completes our engine portfolio for construction machinery and closes the gap in our range between the well-established 6.9 l MAN D0836 and the 12.4 l D2676," explained Hubert Gossner, head of off-road sales at MAN Engines.

Thanks to the equally space-saving MAN Engines exhaust gas aftertreatment system, the engine meets current emission standards such as EU Stage V and EPA Tier 4. The exhaust gas after-treatment system consists of the 2 DOC/DPF (diesel oxidation catalytic converter/diesel particulate filter) modules, as well as a SCR (selective catalytic reduction) system with a special mixer. The exhaust gas after-treatment offers great flexibility, since its individual components can be installed in a huge variety of positions. Where an emissions downgrade to Stage IIIA/IIIB level is appropriate, use of the SCR system is sufficient. In general, exhaust gas recirculation is not necessary for the D1556, creating



additional savings in terms of space, weight and cost. This further reduces the complexity of the system.

Source: MAN Engines

VMAC Releases UNDERHOOD™ Air Compressors and DTM PTO-Driven Systems for 2019 Trucks and Vans

VMAC has released the latest UNDERHOOD™ air compressors and Direct-Transmission™ Mounted (DTM) PTO-Driven systems for 2019 trucks and vans. VMAC will offer over 25 different systems engineered to fit with 2019 trucks and vans by Ford, RAM, GMC/Chevrolet and Mercedes/Freightliner.

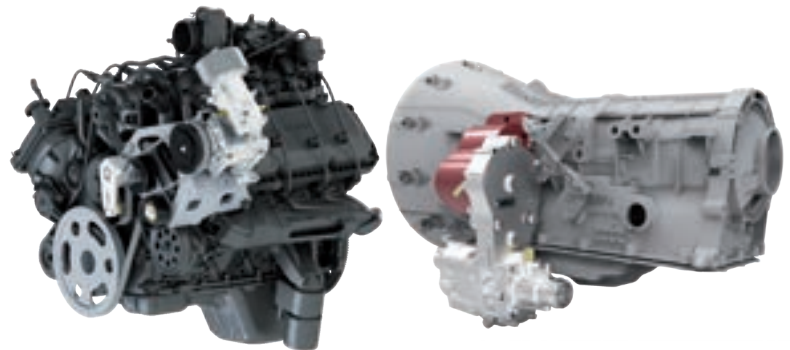
"We're continually expanding our vehicle-integrated air compressor and multi-power system product lines to meet our customers' needs," says Barry Fitzgerald, VMAC's engineering manager. "With our release of over 25 systems, we're ensuring our customers have access to the UNDERHOOD Air Compressors and DTM PTO-Driven Systems they need as they upgrade their service truck fleets to the latest 2019 models."

UNDERHOOD was first released in 1997 when VMAC manufactured the innovative UNDERHOOD 70 Air Compressor, the first rotary screw air compressor to be mounted under the hood of the truck. Over 20 years and over 25,000 UNDERHOOD air com-

pressors later, UNDERHOOD is VMAC's flagship product, with capabilities ranging from 40 CFM (1,130 l/min) up to 140 CFM (3,960 l/min) at 100% duty cycle.

"UNDERHOOD Air Compressors for trucks and vans are favored in the industry for being lightweight and space-saving, while delivering powerful on-demand air in any climate," explains Mike Pettigrew, VMAC's marketing manager. "UNDERHOOD is the best choice for customers who need to save space and weight on their vehicles and minimize the maintenance required on their equipment."

In addition to UNDERHOOD Air Compressors for trucks, VMAC manufactures the only UNDERHOOD Air Compressor



specifically engineered for commercial vans. In 2016, VMAC expanded their vehicle-integrated product line to include the world's first Direct-Transmission mounted PTO driven air compressor, the DTM 70. Then in 2018, the DTM 70-H was released, producing air and hydraulic power at the same time.

"By continually expanding our product line, VMAC is keeping its promise to be the leader in mobile compressed air innovation," notes Mr. Fitzgerald.

Source: VMAC

Sustainable Bioenergy Research Consortium Announces Milestone in Bio-Aviation Fuel

Since January 2018, BAUER Resources GmbH has served as an integral Tier 1 partner to the Sustainable Bioenergy Research Consortium (SBRC), a nonprofit organization established in Abu Dhabi in 2011 as a not-for-profit research consortium to advance the aviation industry's commitment to sustainable business practices by developing technology with the promise of producing a clean, alternative fuel supply. The SBRC was founded by the Masdar Institute of Science and Technology, Etihad Airways, The Boeing Company, and Honeywell-UOP. Since then Safran, GE, and the Abu Dhabi Oil Refining Company (Takreer) and Bauer have joined.

The Masdar Institute is part of Khalifa University of Science and Technology. Bauer Resources supports the consortium with its expertise in the fields of technical equipment, construction and operation of large water treatment plants. The flagship project of the SBRC is the Seawater Energy and Agriculture System (SEAS). Here, researchers from the Masdar Institute are cultivating salt-tolerant, oil-containing *Salicornia* on 2 ha of land. The sustainably-produced biomass will contribute to fuel hedging practices in the United Arab Emirates in the future.

On January 16, the consortium announced that for the very first time, an Etihad Airways Boeing 787 successfully completed a commercial flight partially fueled by locally-produced and refined biofuels. The biofuel was acquired from the oil contained in the *Salicornia* plants harvested from the SEAS pilot facilities near Masdar City.

"This is a significant milestone for the UAE and its key industries," stated Tony Douglas, Group CEO of Etihad Aviation Group. "This project is a successful proof of concept that is local, viable, cost-effective and sustainable."

"Khalifa University is proud to contribute to the creation of a sustainable biofuel value chain, as well as support the UAE's strategic objectives in the energy and food sectors," said Dr. Arif Sultan Al Hammadi, executive vice-president of Khalifa University of Science and Technology. "As a leading research institution in the region, we remain committed to continuing with the mandate to produce biofuel, clean energy, and sustainable technologies for reducing carbon emissions, as well as water and environment-related research."

His Excellency Dr. Thani bin Ahmed Al Zeyoudi, Minister of Climate Change and Environment in the UAE, also emphasized the importance of innovative and sustainable solutions to significantly reducing harmful CO₂ emissions.

Using sustainable feedstock to produce the fuel significantly reduces life-cycle carbon dioxide emissions compared to

challenges facing the aviation industry, according to Jassem Al Sayegh, CEO ADNOC Refining. "We are proud of the role that ADNOC Refining is playing in carrying out



From l. to r.: Dr. Alejandro Rios, Khalifa University, and Marcus Schmuelling, managing director Bauer Emirates Environment.

From the plant to biofuel



fossil fuel. Additional benefits: the biofuel is blended directly with jet fuel and does not require any modifications to aircraft, engines or airport fueling delivery systems.

"This ground-breaking development confronts local, regional and global challenges of energy, water and food security," said Her Excellency Mariam bint Mohammed Saeed Hareb Al Mehairi, Minister of Food Security in the UAE.

Finding a sustainable and commercially viable bio-aviation fuel is one of the key

this research for the SBRC pilot project. Today represents a significant step forward on the journey towards finding a final solution for commercial-scale aviation biofuel."

"The fact that we, as a consortium's Tier 1 partner, have contributed to the achievement of this remarkable milestone makes us proud. We are confident that this success means that the SEAS project will become an integral part of sustainability in the UAE and beyond. It is also an excellent opportunity for Bauer Resources to share and expand on our knowledge in the production of sustainable biomass. Thanks to our experience, Bauer will be playing a key role in the expansion planned for the SEAS facilities," reiterated Marcus Schmuelling, managing director BAUER Emirates Environment Technologies & Services LLC.

Source: BAUER Resources, Sustainable Bioenergy Research Consortium (SBRC)

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Appointments

TrucBrush Corporation is proud to announce that its vice president, **Debora Babin Katz** was inducted to the board of the national **Snow & Ice Management Association (SIMA)** effective January 1, 2019. She will serve as an industry supplier member director for a 3-year term with an optional 3-year second term.



Founded in 1996, the Snow & Ice Management Association is the trade association for professionals involved with the snow & ice industry including commercial and residential snow removal.

"I am honored to serve with such an ambitious group of professional snow service contractors in our industry and to continue to support an organization that is the go-to resource for snow and ice management," said Debora Babin Katz.

TrucBrush Corporation was founded by a 30-year veteran of the snow and ice management industry to provide snow service vendors, facility operators and carriers a safer, faster, and effective mobile means to address the removal of accumulated snow off the roofs of trucks, trailers, intermodal containers, buses, flatbeds and step decks.

Source: TrucBrush Corporation

Audrey Copeland, Ph.D., P.E., is the new president & CEO of the **National Asphalt Pavement Association (NAPA)**. She took the association's helm during a ceremony at the NAPA's 64th Annual Meeting on January 22.



Ms. Copeland was named to succeed Mike Acott, who served as NAPA's president since 1992, and has been NAPA's COO since September 2018.

In her address to NAPA members, Audrey Copeland pledged to continue NAPA's tradition of working to safeguard the asphalt industry, strengthen alliances and collaborations, and modernize the way the industry and the association do business.

Audrey Copeland joined NAPA in 2012 as vice president for Engineering, Research, and Technology. In that role, she has grown NAPA's engineering team and forged strong relationships with the industry professionals and partners. Prior to NAPA, she served as a highway and materials research engineer with FHWA.

Audrey Copeland earned her doctorate in Civil Engineering from Vanderbilt University, and holds master's and bachelor's degrees in Civil & Environmental Engineering from Tennessee Technological University. She is a licensed Professional Engineer in Maryland and Virginia.

Source: the National Asphalt Pavement Association

NTEA Announces Partnership with TruckScience

NTEA recently partnered with TruckScience to offer Association members access to an innovative weight calculator resource at a discounted subscription rate. The TruckScience tool comes with a library of pre-populated specifications/drawings and features, such as compliance indicators and drag-and-drop design. Since 1985, TruckScience has been developing solutions for the commercial vehicle industry; its software is used by body builders, upfitters, truck dealers and fleet companies in 30 countries.

"TruckScience is passionate about simplifying the task of designing efficient and compliant trucks, and we are proud to partner with an industry leader such as NTEA," said Jens Hellberg, TruckScience managing director. "We look forward to meeting with NTEA members, and are excited about the opportunity to showcase our app at The Work Truck Show®, North America's largest work truck event."

Last year, NTEA released a Vehicle Center of Gravity & Axle Weight Calculator – a web-based, interactive tool for Association members that produces vehicle specification and weight information. Interactive instructions make it user-friendly for those responsible for weight distribution and center of gravity calculations. It is a free NTEA member benefit – not available for public purchase. The TruckScience application is a next-level solution for companies with more complex project needs, providing them a higher level of functionality and support.

"NTEA is pleased to collaborate with TruckScience to bring a cutting-edge vehicle design technology solution to the North American commercial vehicle industry," said Steve Carey, NTEA president and CEO. "Through TruckScience, companies will be able to access a robust set of resources for certification requirements. The TruckScience systems provide

additional analysis tools for addressing the needs of more complex vehicle upfits."

The TruckScience calculator offers enhanced features for advanced applications. Similar to NTEA's calculator, it accounts for Bridge Law, axle weights and center of gravity. Enhanced features of the TruckScience tool include payload optimization, spatial positioning, static rollover, turning ability, swing clearance, templates, prepopulated OEM data, reusable custom components, calculation sharing, design sign-off, regular product and library updates, live chat, and cross-platform support.

Source: NTEA – The Association for the Work Truck Industry

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"World's Best Bricklayer!" Is From Hamilton



In front of the largest crowd in the 17-year history of the SPEC MIX BRICKLAYER 500® World Championship, Mason Mario Alves of A & M Masonry in Hamilton, Ontario, won big. Mr. Alves was crowned "World's Best Bricklayer".

After 60 minutes of laying bricks against 26 other world-class masons, the 30 year old put up a wall with a brick count of 760 perfect brick that earned him a 2019 Ford F-250 XLT 4x4 truck, an Essick EM120 HYD mortar mixer on top of US\$10,000 (\$13,200) in cash and prizes. It was his 3rd time qualifying for the championship event in Las Vegas, Nevada. With the help of his brother mason tender Michael, Mario Alves delivered his best performance in an arena packed with thousands of spectators.

Commonly referred to as the "Super Bowl of Masonry", the bricklaying battle took place on January 23, in the heart of the Masonry Madness® Day arena at the World of Concrete trade show.

Source: SPEC MIX

World of Concrete 2019 Celebrating a 10-Year High

World of Concrete 2019 exceeded expectations across the board and concluded its 44th edition as the largest World of Concrete in over a decade.

This signature annual event for the international concrete & masonry industries drew 60,511 registered professionals and featured more than 1,500 exhibitors (including 259 brand new companies) across more than 72,167 m² of exhibit space.

World of Concrete 2020 will be held at the Las Vegas Convention Center February 4-7 (Seminars 3-7).

Source: Informa Exhibitions

Custom Equipment, LLC welcomes industry veteran **Terry Dolan** as its president and CEO. Mr. Dolan brings nearly 30 years of experience in the rental, construction and equipment industries and will lead the overall direction and strategy of the organization.



Terry Dolan is known for building strong organizations with his customer-first approach, starting with the customer's challenges, then developing products and services that enable them to be more productive, safe and profitable.

He started his career in his home state of New Jersey, working for a large equipment dealer. From there, he spent 10 years with Case, held several positions at Ingersoll Rand, and became the executive vice president of commercial and industrial groups at Generac Power Systems. Mr. Dolan then became the president of Ritchie Bros. Auctioneers (U.S. and Latin American markets), the largest auction company worldwide. In this role, he oversaw 23 operations within the U.S. and Latin America.

Terry Dolan holds a bachelor's degree in business management with a concentration in marketing from Concordia University-Wisconsin.

Source: Custom Equipment, LLC

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Agenda

National Heavy Equipment Show

March 28 - 29, 2019
Toronto, ON Canada

ISR2019

April 6 - 11, 2019
Los Angeles, CA USA

bauma

April 8 - 14, 2019
Munich, Germany

CIM 2019 Convention

April 28 - May 1, 2019
Montreal, QC Canada

WasteExpo 2019

May 7 - 9, 2019
Las Vegas, NV USA

A.P.O.M. Technical day

May 16, 2019
Mirabel, QC Canada

Canada North Resource Expo

May 24 - 25, 2019
Prince George, BC Canada

2019 AORS Municipal Public Works Trade Show

June 5 - 6, 2019
Chatham, ON Canada

Atlantic Truck Show

June 7 - 8, 2019
Moncton, NB Canada

MATEXPO 2019

September 11 - 15, 2019
Courtray, Belgium

A.P.O.M. Technical day

September 12, 2019
Saint-Raymond-de-Portneuf, QC Canada

ICUEE - International Construction and Utility Equipment Exposition

October 1 - 3, 2019
Louisville, KY USA

inter airport Europe 2019

October 8 - 11, 2019
Munich, Germany

waste&recycling expo Canada

October 9 - 10, 2019
Toronto, ON Canada

APEX Asia co-located with CeMAT ASIA

October 23 - 26, 2019
Shanghai, China

bautech 2020

February 18 - 21, 2020
Berlin, Germany

CONEXPO-CON/AGG 2020

March 10 - 14, 2020
Las Vegas, NV USA

SMOPYC

April 1 - 4, 2020
Zaragoza, Spain

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

June 9 - 11, 2020
Maastricht, the Netherlands

steinexpo

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

bauma CHINA

November 24 - 27, 2020
Shanghai, China

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