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Volume 25 • Number 7 • August 2020 • *English Edition*





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Volume 25 Number 7
August 2020

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InfraStructures is circulated free of charge to qualified users of heavy machinery and specialized equipment in construction, public works, and natural resources across Canada in both French and English.

The cost of a subscription for one year is \$50 for Canadian residents and US\$75 or €75 for U.S. and overseas. The content of InfraStructures is available for consultation on the website www.infrastructures.com. It may not be reproduced or transmitted in any form, either in part or in full, without the written consent of the copyright owner.

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Publications Mail Agreement #40052183

A Brief Word...

Things are gradually resuming some semblance of the status quo, however is this a rest or a respite?

Certainly there is a concern that people seem more agitated about face masks than fiscal meltdown. With mounting public debt (the worst since WW2), its mismanagement and scandal, grafted onto a backdrop of record personal debt, there is little comfort in thoughts of a post-Covid economy.

Such conditions will hit service sector businesses swiftly and painfully. Public sector spending will prolong the inevitable, resources will devalue, taxation will become vigorous, efficient and oppressive and the currency will wallow.

How can a business, reliant on significant capital investment in machinery prepare for rising replacement costs and fierce competition? Equipment replacement costs will rise, so will costs of maintaining an aging fleet. Ultimately the survivors will be robust enterprises, balancing reinvestment in improved productivity with liquidity on the balance sheet. The failures will be the "Knee Jerkers" that eliminate spending and slash prices and only look weeks, not years, ahead.

It is back to basics, Chapter 1 in the Big Book of Business before we all reach Chapter 11.

In the interim, enjoy the nice weather before we're all locked back up for winter!

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On the cover: several countries in Scandinavia and Central Europe have adopted regulations requiring vehicles with a gross vehicle weight rating of more than 3.5 t to run on 3PMSF (M+S) approved tires for the winter season.

BM GROUP ACQUIRES VANCOUVER READY MIX AND FRASERWAY PREKAST

BM Group of Companies recently announced the acquisition of Vancouver Ready Mix and Fraserway Prekast, further supporting its growing portfolio of construction, project management, material supply, and land development companies.

"BM Group now represents 14 active independent businesses, offering a comprehensive network of complementary

businesses to our clients," said Balraj Mann, chairman and CEO, BM Group. "Our financial strength matched by our portfolio of businesses brings cost savings, time efficiencies, and other benefits to our clients."

"With over 30 years of experience in concrete (supply, restoration and materials testing), acquiring Vancouver Ready Mix was a natural step in expansion, enabling BM Group to double production capacity

and serve new geographic locations," said Racy Sidhu, partner in the BM Group's Material Supply division. "Purchasing Fraserway Prekast as part of this acquisition was a unique opportunity, with capabilities to manufacture precast concrete products, which is aligned with BM Group's core specialties."

"We are bringing revitalization to an industry that is seeing ready mix and related concrete businesses continue to be absorbed by large multinational companies and equity companies," said Milan Mann, vice president, BM Group. "We are proud to be a family-owned local business that can provide opportunities for employment and growth in our communities."

The acquisition included fleet, equipment, property, goodwill, and unique opportunities in manufacturing concrete products. Both Vancouver Ready Mix and Fraserway Prekast will maintain their brand identities while becoming part of a local company with established roots in the construction industry.

Source: BM Group of Companies

CELEBRATING SAFETY AT CRAC ANNUAL CONFERENCE

The Crane Rental Association of Canada (CRAC) recently announced the recipients of the Safety Awards for their outstanding safety standards in 2019.

The awards, announced during the annual general meeting, place 9 crane rental companies on center stage for their commitment and dedication in creating a safe work environment for their staff, operators and the public.

Receiving Safety Awards are: ABCO Crane Services, Nisku, Alberta; Amherst Crane Rentals Ltd., Toronto, Ontario; Canlift Crane Inc., Grande Prairie, Alberta; Canuck Concrete Pumping & Crane, Yellowknife, Northwest Territories; Mammoet Canada, Edmonton, Alberta; Myshak Crane & Rigging Ltd., Acheson, Alberta; NCSG Crane & Heavy Haul Services Ltd., Acheson, Alberta; RKM Services Ltd., Langley, British Columbia; and Sterling Crane, Edmonton, Alberta.

"The Crane Rental Association of Canada is dedicated to improving the safety of the Canadian crane industry and it is more important than ever to celebrate safety among our membership. We congratulate these companies on their performance" said Ryan Burton, chairman of the board,

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who announced the awards during the virtual meeting on June 10th 2020.

The Crane Rental Association of Canada's members are crane rental companies, manufacturers and suppliers of cranes and equipment, and supplier of service used in the specialty crane rental business in Canada.

Source: The Crane Rental Association of Canada

EPIROC CHARGES FORWARD WITH BATTERIES AS A SERVICE (BAAS)

The world's first Batteries as a Service (BaaS) agreement has been finalized in Canada, with Vale and Epiroc partnering on this innovative new approach for utilizing battery technology in mining operations.

As mining companies continue to strive for sustainable productivity and zero emissions, the fast evolution and development of different options within the field of battery technology can be extremely challenging.

"A key component to the success of this offering is the flexibility it allows our customers. We take ownership of the battery itself and automatically replace and update the units as needed, which means the mine site can breathe easier and continue to focus on heightened production," says Shawn Samuels, product manager Rocvolt, Epiroc Canada.

With BaaS, Epiroc works directly with the customer to define a battery plan that suits the needs of their operation. The lifespan is guaranteed and the battery status is carefully monitored to ensure predictive maintenance with reduced downtime. If a customer wants to increase or decrease their capacity, they can adjust their plan and the service will be tailored to meet their requirements.

As part of an ongoing sustainability commitment, Epiroc will remove old batteries from site and replace them with new. These older batteries are then used for secondary applications and will be recycled at the end of the process.

Along with the BaaS agreement, Epiroc will be providing Vale with 10 battery-electric vehicles for 2 Canadian mine sites.

To complement the new battery fleet, Vale will also be adding 3 of Epiroc's charging cabinets and seven charging posts for equipment support.

"We value and look forward to continuing our successful partnership with Vale as

we move towards a zero emissions future in mining together. We both recognize the positive impact a successful battery service implementation can have on operations, so our mutual confidence in one another is well placed," says Jason Smith, general manager Epiroc Canada.

The delivery of the battery equipment to both sites will occur over the course of 2020 and into the first quarter of 2021.

Source: Epiroc



KENWORTH TRUCKTECH+ REMOTE DIAGNOSTICS INTRODUCES EXTENDED SUBSCRIPTION COVERAGE OPTION

Kenworth TruckTech+® Remote Diagnostics introduces an extended subscription coverage option for customers who forego an extended engine warranty plan for their new Kenworth Class 8 models with PAC-CAR MX or Cummins engines.

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Diagnostics 2-year base subscription upon purchase of new Kenworth Class 8 trucks. Customers that buy an extended engine warranty plan get the remote diagnostics system subscription for the duration of extended warranty coverage.

Now, at the time of new truck purchase, customers can conveniently order an extended subscription from their Kenworth dealer to cover from 6 months up to 36 months after the initial 2 years concludes. The subscription duration is clearly defined on the sales order for each new Kenworth Class 8 truck. This process ensures a continued, seamless Kenworth TruckTech+ Remote Diagnostics subscription – without any coverage gaps – upon the 2-year base coverage expiration and transition into the extended subscription period.

Customers that opt not to buy an extended subscription at the time of their new Kenworth Class 8 truck purchase can do so at the end of the 2-year base period. Those extensions also range from 6 months up to

36 months.

Kenworth TruckTech+ Over-the-Air functionality is included with the Kenworth TruckTech+ Remote Diagnostics subscription extension for Kenworth Class 8 units powered by PACCAR MX engines. The Kenworth TruckTech+ Over-The-Air system enhances uptime by offering fleet managers greater flexibility on when and where they can securely install software updates on their PACCAR MX engines and after-treatment.

To initiate updates, Kenworth customers with 2017 or later model year PACCAR MX-13 and PACCAR MX-11 engines must use the PACCAR Over-The-Air mobile app available for download from the Apple App Store or Google Play Store. Customers with active Kenworth TruckTech+ subscriptions can then view these updates using the PACCAR Over-The-Air app or the PACCAR Solutions online portal.

Source: Kenworth Truck Company

ROTILT QUICKCHANGE™ WINS GERMAN INNOVATION AWARD IN MACHINES & ENGINEERING CATEGORY

The German Innovation Award is awarded to solutions that provide longterm impact and added value for the user. Rototilt's fully automatic quick coupler system QuickChange™ recently won in the category Machines & Engineering.

"The award shows that Rototilt has taken fully automatic quick couplers to a new level," said Per Våppling, marketing and sales manager at Rototilt Group AB.

Not having to leave the excavator cab to replace hydraulic tools both saves time and increases safety. Rototilt launched its fully automatic quick coupler system QuickChange™ earlier this year with a number of user benefits and patent applications.

QuickChange differs from other fully automatic quick coupler systems at several key points to increase reliability and minimize downtime. Robust integrated hydraulic couplings is one example, and a nose seal that minimizes the risk of leakage is another. Other smart solutions are also integrated to provide a reliable product and easy servicing.

Rototilt has already received the same prize for the SecureLock solution, which is also integrated as standard throughout the QuickChange system.

"In addition to service life, safety is also in focus," added Mr. Våppling. "SecureLock is standard both for machine couplers and tiltrotators. Here we have added safety features such as constant locking pressure in locking cylinders, flat contact surface on locking bolts and spring-loaded locking cylinders. All to increase safety for a safer working environment."

Source: Rototilt AB

City of Kansas City and GoFleet Working Together To Boost Winter Maintenance Efforts & Visibility

GoFleet recently announced a partnership with the City of Kansas City to improve the efforts of winter maintenance departments. As there is an increased focus on following winter road compliance and updating the public on road conditions, the City of Kansas City saw benefits

to using a telematics solution to help them. GoFleet's Winter Maintenance solution was chosen to provide insight into which roads were plowed, salted as well as displaying visibility of progress to all local citizens on an interactive map.

After fleet implementation is complete, city officials and residences can expect to have large amounts of information available to them. Not only can winter maintenance departments better measure and report on plow position, spread rates and productivity, but the public can view plow routes through a public link.

This partnership is exciting news as winter weather continues to cause headaches for those travelling and municipalities continue to direct their attention on improving their efforts.

Source: GoFleet



JCB'S ELECTRIC MINI EXCAVATOR WINS PRESTIGIOUS AWARD

JCB's electric mini excavator recently scooped one of the world's most prestigious prizes for engineering innovation.

The UK's Royal Academy of Engineering announced that JCB's ultra-quiet and zero emissions 19C-1E electric mini excavator has won the 2020 MacRobert Award. The MacRobert Award is a prize for innovation that has been presented since 1969 to honor a wide variety of engineering feats, including the CT scanner and Rolls-Royce's Pegasus engine used in the Harrier jump jet.

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JCB faced strong competition for this year's award from two other shortlisted finalists: the all-electric I-PACE sports utility vehicle from Jaguar Land Rover and ecoSMRT® liquid natural gas reliquification technology from Babcock's LGE business.

"To win one of the world's most respected engineering prizes is an outstanding endorsement for JCB's electrification team, who have achieved so much in applying a science which was new to our business," said JCB chairman Lord Bamford. "JCB's electric mini excavator will contribute to a zero carbon future and it's a huge honor for

our contribution to be recognized in this way."

"JCB's electric digger is a huge engineering achievement. The team has developed all parts of the electric propulsion system to deliver system performance that matches real customer requirements. This is a huge achievement in itself, but the additional benefits of zero exhaust emissions and much lower noise has lifted the 19C-1E excavator to a new level," said Professor Sir Richard Friend FEng FRS, Chair of the Royal Academy of Engineering MacRobert Award judging panel.

Stainless Steel Spreaders Feature Revolutionary Material Delivery System

Capitalizing on decades of expertise with its industry-leading poly spreaders, SnowEx® introduces its new HELIXX™ stainless steel hopper spreaders. In addition to the proven durability and corrosion-resistant benefits of stainless steel, the spreaders feature the revolutionary HELIXX material delivery system, an innovative design that helps optimize material flow. Furthermore, by adding a pre-wet and direct liquid application kit, the HELIXX becomes a triple threat – with the ability to spread, pre-wet and spray with one machine.



Compatible with full-size pickups, flatbed trucks or dump-bed trucks, the HELIXX stainless steel hopper lineup includes 5 different models, including capacities of 1.14 to 4.6 m³. Both the hopper and frame are constructed of corrosion-resistant stainless steel. The frame boasts a unique leg and sill design to form a ridged backbone structure for greater longevity.

The unique cab-forward hopper design delivers better payload distribution to reduce stress on the truck. The HELIXX extends beyond the hopper and into the patented pre-wet mixing chamber to help prevent leaking/spilling during transport while providing an ideal location for pre-wetting material.

Baffles within the chute direct material to key areas on the spinner resulting in a remarkably even and consistent spread pattern, as well as reducing material directed back at the vehicle. Spinner height adjustment on bigger models allow the spreaders to achieve a consistent spinner height regardless of vehicle type. A dual variable-speed control allows independent adjustment of spinner and HELIXX speeds for precise material delivery, whether at low or high output. It also features no-blast startup, auto reverse and it integrates with accessories for simple plug-and-play operation.

SnowEx Snow and Ice Control Equipment is part of Douglas Dynamics, North America's premier manufacturer of vehicle attachments and equipment and home to the most trusted brands in the industry.

Source: SnowEx Snow and Ice Control Equipment

The 19C-1E excavator is the world's first volume-produced fully electric mini excavator and with it, JCB has shown it is possible to make powerful construction machinery without an internal combustion engine. Hundreds of the machines have been sold.

As well as significantly reducing carbon emissions, the electric mini excavator has zero exhaust emissions and very low noise levels. This combination makes it much better suited than traditional construction equipment for operating inside buildings or in areas where noise must be kept to a minimum, for example near hospitals and schools and in cities where night shift work is often necessary.

Source: JCB

SENSOR-TECHNIK WIEDEMANN AND SIKO JOIN FORCES

Sensor-Technik Wiedemann (STW) and SIKO have agreed on a strategic partnership with the aim of further opening up the market for mobile machinery with joint solutions that are based on individual

strengths. Customers will benefit from the cooperation by having access to complete systems ranging from measurement technology through to automation and cloud-based concepts.

The strategic partnership is the natural extension of a strong, long-standing cooperation and creates the basis for joint developments and coordination of the respective product portfolios. STW offers solutions for the mobile machinery market ranging from sensors, controllers and human-machine interfaces to networking, data management and cloud connections. SIKO is a specialist for robust and innovative measuring technology for a wide range of measuring tasks, such as length, angle and speed measurement. At the sales level, joint marketing activities are planned on the basis of the eco-system concept. In addition, joint development projects are in the works. These will optimally combine the expertise of both companies in order to form products and solutions that bring plenty of customer benefits. This includes the expansion of the modular sensor

system for mobile hydraulics with new or extended features, as well as the provision of functionally safe systems.

"We look forward to an even closer cooperation with SIKO. Together with SIKO solutions, our broad portfolio offers our customers worldwide access to universal solutions that make system integration significantly easier," said Hans Wiedemann of Sensor-Technik Wiedemann.

"With this partnership, we are bundling the skills of both companies and creating the basis for optimal cooperation as a foundation for groundbreaking project and customer solutions. Especially when it comes to position sensor technology, digitalization and automation, we see great shared opportunities on the horizon," added Mathias Roth, manager of the Mobile Automation business unit at SIKO.

Source: Sensor-Technik Wiedemann GmbH

WIKA MOBILE CONTROL LAUNCHES LIVE ONLINE SERVICE TRAINING COURSES

With so many travel restrictions in place due to the current COVID-19 situation, WIKA Mobile Control recognized that, for the near future, conducting in-person service training classes would no longer be a viable option. While COVID-19 has put a hold on in-person training and education, WIKA wanted to find another way to ensure that attendees continued to develop their current knowledge and skills for the WIKA product line.

Previously held in locations throughout the U.S. and Canada, WIKA service training courses have transitioned to a live online webinar format as an alternate solution to physically being in a classroom. WIKA online courses provide the opportunity for attendees to join classes remotely from their own location and are a safe and effective alternative to in-person training. Each 4 hour online class features service training on a different WIKA product and includes classroom instruction and interaction as well as live simulator training. This new format enables attendees to tailor their courses to their own individual requirements and also reduces costly travel expenses that might typically be incurred when physically attending a class. Additional classes for other products or operator training that is not currently scheduled is available upon request.

Source: WIKA Mobile Control, LP

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HAULHUB TECHNOLOGIES LAUNCHES THE JOBSLIP E-TICKETING APP

HaulHub Technologies recently announced the addition of the JOBSlip app to its innovative construction performance platform.

The JOBSlip app was developed with insights from experts across the construction materials industry to provide a world-class digital ticketing experience for the customers of some of the world's largest asphalt, aggregate, and ready-mix producers.

With JOBSlip, producers and contractors can easily share digital tickets with their customers and crews to provide a safer, more efficient, and cost-effective way of transferring key project data to all stakeholders. The JOBSlip app creates a digital replica of the traditional paper slip and allows producers to easily invite their customers to participate in the electronic ticketing process.

JOBSlip is the companion app to DOTslip, the innovative e-ticketing solution used by Departments of Transportation throughout the U.S. HaulHub's JOBSlip app enhances innovations in e-ticketing functionality by allowing real-time insights into material flows on construction projects and reduces transactional friction between producers and consumers. HaulHub's suite of ticketing apps provides the industry's best way to rapidly communicate quality-control, production, and quantity data amongst project stakeholders.

"We saw an overwhelmingly positive response from DOT's across the country for our e-ticketing solution," says HaulHub Technology's Brady Murray. "The next logical step was to provide producers and their customers with a tool that would allow them to safely and seamlessly exchange ticket data immediately once the material leaves the scale. Over the past several months since the release of DOTslip, we have seen the pace of change in the industry rapidly accelerate, and producers, DOTs, and contractors are more willing to adopt new technologies as the industry looks towards a new normal post-COVID-19."

"With JOBSlip, producers can offer their customers a simple, intuitive, and elegant tool to view their ticket data on the web and mobile devices," says JOBSlip's general manager Houston Merck. "Paper is completely eliminated from the ticketing process with the information now available

in the cloud for integration into 3rd party accounting and data retention platforms."

JOBSlip is now available in the Apple App Store, and via the web. A new implementation can be launched within days for full digital ticket integration.

Source: HaulHub Technologies

MIGHTY BREAKTHROUGH FOR EUROPE'S BIGGEST BORING MACHINE

The largest tunnel boring machine ever used in Europe successfully completed its drive in June. The supersize EPB tunnel boring machine (Earth Pressure Balance

shield) made in Germany by Herrenknecht, dug 7.5 km of highway tunnel, 15.87 m in diameter, through the Apennine Mountains in Italy. In cooperation with its customer Pavimental S.p.A., Herrenknecht designed a new system for the machine, to protect particularly the site crew from the expected methane gas deposits in the ground.

The large 3-lane Santa Lucia tunnel is a key part in the expansion of the A1 highway between Bologna and Florence on behalf of Autostrade per l'Italia S.p.A.

Continued on page 13

Dana Unveils New Electric Motor, Drive Axle for Lift Trucks

Dana Incorporated recently introduced new drive technologies for material-handling vehicles, including a low-voltage, high-efficiency motor for electric-powered applications, as well as a new series of modular, high-efficiency drive axles for Class I, IV, and V industrial lift trucks.

The new technologies demonstrate how Dana offers modular systems that support both bolt-on and fully integrated approaches to vehicle design. Dana's flexibility helps manufacturers reduce system complexity, shorten the time to develop and introduce new products, and facilitate the introduction of innovations into the vehicle life cycle.

Dana has a deep portfolio of Spicer® axles, transmissions, and driveshafts for traditional applications driven by internal-combustion engines, as well as a full range of electric motors, inverters, and controllers for low- and high-voltage applications ranging from 24 to 800 V.

Additionally, Dana supplies motion systems for work functions as well as advanced sensors and controls developed to optimize productivity, maximize life, and reduce maintenance.

"Performance, efficiency, and modularity are the top needs for manufacturers of material-handling equipment," said Aziz Aghili, president of Dana Off-Highway Drive and Motion Systems. "Dana's new generation of innovations provide the lowest total cost of ownership by helping equipment buyers navigate the challenges of Industry 4.0, human-to-machine communication, autonomous vehicle operation, Big Data, and the end-to-end digitization of supply chain processes."

Source: Dana Incorporated



Atlantic Industrial Equipment Offers LiuGong Product Line

Michel Marchand, vice president of LiuGong Canada, has announced Atlantic Industrial Equipment LG as its newest member in the LiuGong North America family of dealers.

Established in late 2019, Atlantic Industrial Equipment will offer the complete LiuGong NA product line – wheel loaders, excavators, mini excavators, Dressta dozers, skid steers and 31 models of Class 1, 3, 4 and 5 industrial forklifts. The new dealership is partnering with Nova Truck Centres for locations and product support from three of Nova Truck's Nova Scotia facilities: in the Dartmouth, Truro and Westville.

Throughout his career, Atlantic Industrial Equipment president James Bond has represented the construction industry's top-rated heavy-duty equipment manufacturers. "We are confident James and his team will provide vital support to construction industry throughout Atlantic Canada. They offer years of experience and a highly trained technical staff to maximize their

customers' uptime and productivity," said Michel Marchand.

"We are really fortunate to have a bordering dealer in Montreal, Gymdex, that has been a very successful LiuGong dealer over the past 9 years selling hundreds of machines to all sectors," said Mr. Bond. "Now we offer Atlantic Canada the same high-value, LiuGong choice."

"The timing is 'ideal'," he added. "COVID-19 has taught us that doing business will change. LiuGong NA offers a completely new business model and value proposition for the industry."

Those that know the LiuGong brand may recognize it as the world's largest manufacturer of wheel loaders. LiuGong, however, stood out from other brands.



"LiuGong is a fast-growing company that places high priority on customer service," said James Bond. "They have the same values we do and are a great match for us. Then they backed it up immediately by making a huge investment in a significant number of people, facilities, inventory and resources to support us."

"The LiuGong product lines give customers their highest value choice by combining world-proven designs with features and performance that customers through-

Goodyear Fuel Max RTD features Three-Peak Mountain Snowflake and Fuel Efficiency Ratings

In response to the rapidly growing regional-haul trucking segment, The Goodyear Tire & Rubber Company is launching 3 new sizes for the Goodyear Fuel Max RTD (Regional Traction Drive) tire line. In the second quarter of 2020, all 6 Fuel Max RTD sizes will be available at original equipment (OE) and at Goodyear authorized dealers.

Designed to improve the operational efficiency of regional and urban trucking fleets, the Goodyear Fuel Max RTD is Goodyear's best premium regional drive tire, balancing fuel efficiency with traction and long miles to removal.

Compliant with Phase 2 Greenhouse Gas Emissions and Fuel Efficiency Standards, the tire also contains a new, low rolling resistance compound and is complete with a Three-Peak Mountain Snowflake Certification for enhanced traction in all weather conditions.

"Three-Peak Mountain Snowflake Certification testing is conducted in the harshest winter conditions at a Goodyear facility

in Finland above the Arctic Circle," said Dustin Lancy, Goodyear commercial product marketing manager. "Combined with our new tread design and compounds, this traction enhances the tire's performance to maximize grip, fuel efficiency and long miles to removal."

Ideal applications for this tire cover a wide range of vehicle types, including straight trucks, day cabs, box trucks, heavy duty pickups, utility vehicles and any regional truck that requires extra traction in all weather conditions.

The Goodyear Fuel Max RTD line is currently available in OE sizes 11R22.5 (Load Ranges G and H) and 255/70R22.5 (Load Range H). By the second quarter of 2020, the tire will be available in sizes 225/70R19.5 (Load Range G), 245/70R19.5 (Load Range H) and 295/75R22.5 (Load Range G), which is SmartWay® verified for sustainable transportation. These 19.5 and 22.5-inch sizes are among the top growing in the regional and urban segment.

The Goodyear Fuel Max RTD is part



of Goodyear's Total Solution of trusted products, premier service network and complete tire management. The Fuel Max RTD will be available at authorized independent Goodyear commercial tire dealers throughout the U.S. and Canada, as well as Goodyear Commercial Tire & Service Centers.

Source: The Goodyear Tire & Rubber Company

out Atlantic Canada require with low cost of ownership and excellent North American-based product support. And they stand by their equipment with industry-leading, 5-year warranty – the most comprehensive coverage in the market,” he concluded.

Founded in 1968, Nova Truck Centres, a Daimler Group dealer specializing in sales and service of new and used Freightliner and Western Star trucks and a variety of name brand and custom-built trailers, offers LiuGong equipment owners access to 70 of the province’s top OEM-trained technicians from 4 locations. That means no matter where LiuGong equipment owners find their machines working, they have access to close product support ensuring



maximum productivity with lowest downtime for maintenance and service.

“Customer-wise, the partnership is a very nice fit. The customer lists for vocational equipment of both companies align almost perfectly,” said Nova Truck president and CEO Peter Macgillivray, who is also principal and chairman of newly formed Atlantic Industrial Equipment.

Source: LiuGong North America

Thanks to optimized routing compared to the previously winding highway, the efficient tunnel will reduce the likelihood of accidents as well as travel times for thousands of cars and trucks that will be using it each day.

After the start of tunnelling in July 2017, the Pavimental miners drove up to 122 m of tunnel per week through the mountain range with the 4,800 t colossus. During the long drive, the machine excavated a total of around 1.5 million m³ of soil and rock – this corresponds to almost 2/3 of the volume of the Cheops pyramid in Egypt.

With the production of the machine for the Santa Lucia project, Herrenknecht beat the existing European record for tunnel boring machines diameter of 15.55 m. It had been held since 2010 by the Herrenknecht EPB tunnel boring machine for the Sparvo tunnel, also used for the expansion of the A1 motorway in Italy.

Source: Herrenknecht AG

New Drive Tire Provides All-Weather Dependability

Bridgestone Americas, Inc. recently announced the release of the all new Firestone FD692 drive tire, offering fleets a fuel-efficient, SmartWay® verified and California Air Resources Board (CARB) compliant tire backed by the Firestone brand. Engineered with 400% more biting edges than its predecessor and Three-Peak Mountain Snowflake (3PMS) certification, the Firestone FD692 tire provides dependable performance in wet and winter weather conditions.

In head-to-head internal testing, the Firestone FD692 tire had better wet traction than tires from other brands. In addition to its exceptional all-weather performance, the Firestone FD692 offering helps fleets reduce fuel costs without compromising on durability.

“Bridgestone is committed to making mobility more efficient for fleets, which is why we are launching the new Firestone FD692 fuel-efficient drive tire to help fleets capitalize on the full performance potential of their valuable tire assets,” said Ben Johnson, marketing director, truck and bus radial tires, U.S. and Canada, Bridgestone Americas Tire Operations (BATO). “This new tire is uniquely designed with the latest technological advancements to achieve the long-lasting wear, efficiency and dependability that hard-working fleets demand from their tires.”

The new Firestone FD692 tire is now available in 4 sizes in the U.S. and Canada.

Source: Bridgestone Americas, Inc.



SMARTROCK™ CLOUD-BASED DASHBOARD EMPOWERED BY CUSTOMER FEEDBACK

Giatic, world leader in concrete testing technologies, has announced that their web-based dashboard, Giatic 360, has recently undergone extensive upgrades after months of research including customer feedback.

The latest Giatic 360 dashboard release is the next level in data analytics, reporting, and user management capabilities for Giatic’s SmartRock sensors. Based on customer insights and user activity, Giatic has added multiple features to its software platform, including the ability to share project data with stakeholders outside a company, switch between multiple company projects, and others. With this dashboard, Giatic 360 users have more access and control of their important concrete data, allowing them to optimize all SmartRock wireless sensor capabilities, including analyzing temperature gradients, monitoring concrete curing in real-time, and predicting concrete strength. This provides valuable insights needed to make fast and efficient decisions on all construction projects.

Source: Giatic Scientific Inc.

Wheel Loader Succeeds Motor Grader for Township Work

Seward Township, located in the state of Illinois, has replaced their motor grader with a new Hitachi ZW180-6 wheel loader.

"We bought the Hitachi loader last summer after months of researching what our needs and budget would fit," said Anne Vickery, road commissioner, Kendeall County, Illinois.

According to Jason Vickery, the township's road supervisor, the decision to dispose of their motor grader and replace it with a new equipment was driven by the loss of gravel roads in the township.

"When we bought the grader, we had more than 58 km of gravel roads that needed attention. Now, we have only 1.6. The grader got a lot of use for a while, however, in 2003, our township experienced significant growth and we began to pave our roads. Grader use fell year over year," said Mrs. Vickery.

In the winter of 2019, the township began searching for a more versatile piece of equipment. They put out an RFO

(request for quote) to 4 heavy equipment manufacturers. In the end, they purchased a loader from Illinois Truck and Equipment located in Morris, Illinois.

Seward Township uses the ZW180-6 for snow plowing, truck feeding, lift and carry, and light earthmoving applications. A hydraulic quick coupler allows for the quick exchange of attachments.

Shortly after acquiring the ZW180-6, the township added another and unexpected application to the machine's repertoire—rescue.

Flood waters swept a car and its driver into a creek. "The young man was standing on top of his car while it was still moving through the water," recalls Anne Vickery. "Our township's Emergency Services contacted Jason who was able to pluck the young driver off the top of his car with the bucket. Now that's versatility!"

"The machine's new Tier 4 final Cummins engine does not require a diesel particulate filter, thereby reducing fuel

consumption and maintenance costs," said Nick Stipanovich, sales representative for Illinois Truck and Equipment.

The machine's SCR system uses a simple DEF system for efficient operation without high engine temperatures. Eliminating the DPF components with the SCR system also opens up working space in the engine compartment for easier access.

An automatic power-up function responsively increases engine rpm when the loader slows down due to uphill travel. An auto shutdown feature provides fuel and emissions savings. Overall, the Dash 6 model boasts a 7% fuel reduction in V-shape loading and 5% fuel cost in load-and-carry operations.

The transmission is automatic and features a proprietary excavator style load-sensing system. This feature, coupled with a work mode selector, helps deliver the right amount of power for the application. A shift-to-hold switch provides extra traction or torque by overriding automatic

Eagle Builders Celebrates 20 Years With New LTM 1250-5.1

Based in Blackfalds, Alberta, Eagle Builders have seen tremendous growth over the years. The company specializes in the design, engineering, fabrication and building of precast concrete structures. Eagle Builders is the industry trendsetter for fostering innovation and emerging



technologies. Its subsidiary Quickline Crane is serving all the heavy lift requirements for the parent company.

As Eagle Builders turns 20, and project requirements are getting more complex and higher load capacities are demanded, the company has purchased a Liebherr



mobile crane LTM 1250-5.1. The 250 t crane fully meets their demands.

For the new crane addition, Quickline Crane turned to Liebherr because of its brand name and recognition for their quality equipment.

The new LTM 1250-5.1 is the largest crane in the Quickline Crane fleet and will be utilized on major Eagle Builders projects.

"We stand behind every project

throughout its lifecycle so we expect the same from our suppliers, trades or service companies. Therefore service of equipment is of the utmost importance and not taken lightly," said Craig Haan, director of Quickline Crane and Eagle Builders.

Eagle Builders employs 273 people with 4 dedicated staff members for Quickline Crane, now operating 2 Liebherr Cranes in its growing fleet.

Source: Liebherr-Werk Ehingen GmbH

transmission settings to maintain the current gear until the switch is pressed again.

“A standard limited slip rear axle helps the operator maintain constant control of the machine and focus on the task at hand,” added Mr. Stipanovich.

The loader’s ROPS, enclosed cab with sound suppression features great visibility, market-leading technologies and intuitive controls.

The single, pilot-assisted control lever and an auxiliary function lever plus the in-cab operator-friendly LCD color monitor provide intuitive controls. The monitor displays useful information at a glance, such as fluid levels, oil temperature, power mode, and images captured by the rear-view camera.

Since snow removal is the primary application that the wheel loader is expected to perform, it was really important to the township that the machine be optimized for working in the snow. The Hitachi ZW180 excelled at meeting this criteria, too.



The machine comes equipped with a strong heater, an optional heated seat, and optional cold start feature via an air intake heater. Front and rear wipers and washers keep glass clean in snowy weather. “Plus, large, heated mirrors give a better view even in winter,” says Jason Vickery.

Machines engaged in snow removal applications work morning, noon and night. Seeing and being seen are essential to safe, efficient operation. “We added additional lighting for safe operation at night

and in low light environments. Drivers and pedestrians need to be able to see us and extra lighting is a great help,” says Mr. Vickery.

To clear roads from snow, Illinois Truck and Equipment introduced the township to AMI Attachments Reactor Wing Blade. The attachment features a quick attach on both the front angle blade and wing blade so each blade can be used in tandem or individually – an industry first.

Source: Hitachi

Liquid Ice Control Equipment

Precision Industries Guelph Ltd. has been engaged in the manufacture of industrial liquid application equipment for over 20 years. The Guelph, Ontario, based company specializes in sprayers, liquid

anti-icing and de-icing applicators as well as brine makers.

Precision Industries’ continuous flow brine makers are designed to produce over 13,000 l/h. Stationary and portable models



are available only requiring sufficient electrical and water connections to ensure maximum production. Portable variants come in sizes up to 13,000 l/h, and can be fitted with self-loading legs or several platform configurations to suit customer fleet requirements.

Precision Industries can supply and install automatic rate controllers from: Raven, Force America, Micro Trak, Spraying Systems and Compuspread. The company’s technicians have the knowledge and experience to retrofit your existing system or equip your new one. Precision Industries also supply Roadwatch pavement temperature monitoring systems.

Source: Precision Industries Guelph Ltd.

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A First RUTHMANN T 235 A for Canada

Up and Down Lifting Solutions in Ayr, Ontario, recently took delivery of their first RUTHMANN T 235 A to expand their already sizeable fleet of truck mounted aerial work platforms. Up and Down and their customers were so impressed by the unit that they quickly ordered a second RUTHMANN T 235 A to provide more capacity for their rental customers. The 72 m working height truck mounted aerial work platform has an outreach of up to 36 m.

The working height and outreach make the RUTHMANN T 235 A an excellent choice for providing the needed access in multiple applications including wind, communications towers, electrical transmission, building maintenance, and any other access situations which require height, extreme outreach, or multiple articulation points. The 3-section second boom and controllable 3rd boom with 180° articulation between both the 1st and 2nd booms and the 2nd and 3rd booms add to the up and over flexibility and capability with a total



up and over length of 20 m.

Up and Down Lifting Solution's customers have said they are impressed by the speed, stability, and smoothness of the RUTHMANN product.

With a platform capacity of up to 600 kg, safely lifting tools, materials, and people is no problem for the RUTHMANN T 235 A. The large platform which extends from 2.4 m wide to 3.65 m wide offers enough space for Up and Down Lifting Solution's customers to complete their work efficiently while also providing electric or air

to power their tools.

As with all RUTHMANN products sold in North America, the T 235 A is certified to comply with the ANSI A92.2 U.S. safety standard and the CSA 225 Canadian safety standard.

Source: Ruthmann GmbH & Co. KG





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2008 Elliott 1800 18 ton tractor-mounted boom truck, 70' boom, continuous rotation, Gear M5586 LMI compactor, 2008 International 7400 7th wheel tractor, 330 hp Maxtorque Q, Allison automatic, 37,879 hrs 2570 engine hrs, rental available.



2009 Terex RS70100, 35 ton, 100' telescopic boom, 55' telescopic dact, out and down main & auxiliary stabilizer, front stabilizer 2-speed hydraulic wheel, non-rotating 5/8" wire, ball descent, Gear M5586 compactor, steel platform, aluminum box and post support, engineer certified, ready to work.



2011 Broderson IC-250, 18 ton, 4-piece 157"-50'1" boom, 20' jib, pulley block and ball, Cummins C6B3.3, 4 wheel drive, 4 wheel steer, heated cab, Gear M5586 compactor, 2,700 hrs, engineer certified



2004 Grove TMS700E, 60 ton, 4-section 110' reach boom, 33'-50" 2-section bi-fold jib, 18,500 lbs counterweight, 15 ton headshe ball, 40 ton 3 phase block, main and auxiliary hoists with non-rotating wire rope, auxiliary model sheave, 450 hp Cummins, aluminum wheels, 12,900 engine hrs, 63,000 miles, recently certified, new paint in 2019.



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The Cool Revolution in Tool Maintenance

RUD's Tool Mover takes the strain out of tasks such as unmounting heavy tools from injection moulding machines or dismantling machine parts weighing several tonnes that previously needed a crane and at least 2 operators. This latest generation of the innovative Tool Mover provides users with a much larger working surface at the lowest possible working height. This offers major benefits for operators, workshop managers, workplace safety inspectors and financial controllers – with Tool Mover, handling tools has never been so safe, efficient and effective in terms of costs or processing.

RUD's Tool Mover can be supplied in configurations that suit your exact requirements. It has been designed for use in the tool and mould-making industries, with injection moulding and pressing tools, and with pressing, bending and forming technologies. It is also ideally suited for applications in the automotive, electronics and packaging industries.

"If you're looking for a win-win situation for everyone involved in maintenance, you can't do better than Tool Mover. Accountants are pleased that the machine pays for itself in less than a year. Workshop managers benefit from much shorter maintenance processes and service teams can work more efficiently without risk of injury, thanks to the machine's ergonomic design," explained Anne Kühling, product manager in the Conveyor & Drive division at RUD Ketten Rieger & GmbH und Co. KG.

When designing the latest generation of the Tool Mover system, RUD's engineers reduced the height of the working surface on the smallest model to 595 mm.

"Enabling users to work as ergonomically as possible was really important to us. This lower working height means that opened tools can be maintained directly on the working table. Operators can work more comfortably in a natural posture, and there are fewer setup costs," said Klaus Pfaffeneder, head of design at RUD Ketten

(Conveyor & Drive division).

The Tool Mover has revolutionized maintenance procedures, enabling operators to work in full compliance with occupational health and safety regulations.

RUD's Tool Mover is designed to axially rotate tools and machine components weighing up to 64 t. It rotates and turns over even the heaviest loads, reliably and safely. The machine turns over loads smoothly in their center of gravity. The Tool Mover's work table has a frequency-regulated drive to ensure it stops and starts smoothly, without juddering. RUD's Tool Mover is also fitted with a high-end drive system from the TECDOS range. The Omega Drive at the core of the system ensures perfect rotation during turn-over.

The Tool Mover can turn over objects at least twice as quickly as a crane, in less than a minute. Plugs or cooling hoses that usually have to be dismantled for safety reasons during component maintenance using a crane can simply stay in place when the Tool Mover is used to turn over the components.

In some cases, you might even save a great deal of money by installing a Tool Mover in your workshop instead of investing in an expensive crane system. The Tool Mover can be moved easily with a fork lift truck or pallet truck, etc., and installed exactly where it is needed.

The Tool Mover also protects existing infrastructure such as the production hall floor, because tools and machine components no longer have to be dragged over to maintenance points.

RUD manufactures the Tool Mover at its headquarters in Aalen, Germany. Available in 6 standard sizes, the Tool Mover is ideal for a wide range of tool sizes. The smallest version, with a table area of 800 x 1300 mm (L x W) can handle up to 10 t. In contrast, the largest standard version can rotate tools and machine components weighing up to 64 t safely and smoothly on its 3500 x 2500 mm table area (L x W).

Source: RUD Ketten Rieger & Dietz GmbH u. Co. KG

Source: RUD Ketten Rieger & Dietz GmbH u. Co. KG



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Arctic Cooling

Marty Drinkwine,
Special Collaboration

When you think of an extreme mining environment to work in, popular fancy may turn to the challenge to be faced on Mars in the coming decades. Much closer to home, but almost as challenging is an environment that tests both man and machine to almost the same degree. It is, ...The Arctic!

Contrary to popular belief the Arctic is not a vast empty wilderness frequented by few creatures and fewer humans. In this terse wonderland is to be found a resource critical to the continuance of the Canadian economy. It is a major iron ore find near Mary River on the Arctic Circle at the top of Baffin Island in Canada's Nunavut Territory.

The ore deposit was first surveyed in the 1960s, however extraction activity did not begin until the early part of this century. This was not to be the simple "Dig Away/ Draw Away" operation as found elsewhere in Canada. Rather, this would be as much a colonisation operation as a resource extraction one. Particularly more intricate given the wild nature of the terrain, climate and complete lack of infrastructure and support. Nothing had been done on a scale like this since the opening of Labrador in the early 1950s as seen in the National Film Board of Canada film "Road of Iron" by

Walford Hewitson. Certainly nothing that has had to account for the cultural, environmental and political sensibilities found in the 21st Century.

To do this would require bringing together finance, expertise, materiel, government and the support of local stakeholders. A company of adventurers in a very modern sense, a company to be known as Baffinland Iron Mines Corporation (BIM) took up the task to bring this very special ore to the steel makers of the world.

As with any mineral operation, equipment, spares, maintenance and port facilities had to be established. Unique to this locale, roads, power, water and accommodation infrastructure were also required as there was virtually no human presence for over 100 km and none of any substance to support this scale of development.

Development requires energy and the most flexible energy technology available in such a situation is the portable generator. Not your puny 5 kW camping genset, but a complete electrical power generation, transmission and control grid. Due to the geography of the operation not 1, but 2 grids were required. One to power and support the mine site, the other for the shipping site.

Light means heat, especially in virtual 24 hour darkness. Heat also means survival of man most valuable and critical resource, argu-



ably more so than the ore body itself.

Such pressure makes the selection of critical components a high priority with the emphasis on reliability in such extremes. Cummins rose to the challenge and its generators provide this vital energy for operations and accommodations. A series of 15 power units – 8 for the main camp and 7 for the shipping camp. Each is a self-contained cell to provide environmental protection for the units and to control the cooling and exhausting of air owing to the extremes of the climate. Ambient temperatures roughly range from between 10°C to -30°C according to Environment Canada. Controlling cooling parameters is important to starting and running the engines, particularly under load.

Stable operating temperatures for the engines also translates into coolant and lubricant temperatures being stable. This puts great reliance on the efficiency and reliability of the heat exchangers required. Unfortunately, as often happens, an inexpensive conventional core cooling package slipped through the initial procurement process. The result was less than satisfactory in reality, than it had been on the balance sheet and after exposure to the tough conditions soon began to become troublesome and jeopardized the success of the operation.

Cummins Eastern Canada, the regional service support distributor, knew the answer and recommended that BIM contact L&M Radiator in Minnesota to discuss a suitable Mesabi cooling package to resolve the reliability issue. Could they design, build and deliver a suitable number of units before the situation deteriorated further?

Mesabi and Cummins engineers got to work using the latest techniques including finite element method (FEA) to evaluate and finalize a workable solution. Once the new coolers were on site, Cummins Eastern initiated a program to remove and replace the old coolers with the minimum of disruption to BIM. L&M dispatched a liaison team to provide technical assistance and advice.

More than a year later, the power plants are fulfilling their role and BIM has extracted and shipped record tonnages of ore. Mesabi with its rugged design and serviceability has played its part at the "Top of the World".

IPD Partners with Maxiforce to Expand Product Reach

IPD, the leading supplier of high-quality replacement parts for heavy-duty diesel and spark-ignited engines, recently announced a new brand called IPD Xtra for its North American customers.

"IPD Xtra is comprised of carefully selected partnerships with other manufacturers that share our commitment to quality and are a strong fit with the IPD brand. These partnerships will

be chosen to expand IPD's product reach in markets that complement our customers' needs," stated Michael Badar, IPD president.

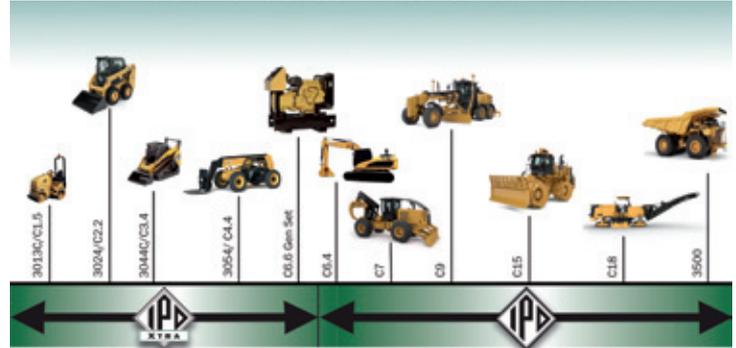
This means IPD will only partner with companies that share IPD's commitment to quality products, meet their rigorous quality standards and testing, are ISO 9001:2015 certified and are fully dedicated to customer satisfaction.

IPD Xtra's first partnership will be with Miami-based Maxiforce and will expand IPD's product reach to include engine parts for the small-bore construction and power generation markets. IPD will offer its customers engine parts as small as the Caterpillar 1.5, as large as the 3500, and all Cat engines in between.

"This partnership provides IPD customers the most comprehensive replacement parts coverage in the construction industry – offering many engine kits that are hard to find," added Bill Mirth, IPD's director of

business development, Americas.

Maxiforce is a brand devoted to manufacturing and distributing diesel engine parts for Caterpillar®, Perkins®, John Deere® and other manufacturers.



"Working with IPD is a true honor and a great opportunity for Maxiforce to break into new markets with our unique Caterpillar line of engine parts. We are excited and ready to be the first brand to work with IPD Xtra," commented Paul Kelley, vice president of Maxiforce.

IPD's knowledgeable customer service teams are available to answer any questions, respond to quotes or take orders. Customers can also order IPD Xtra products through IPDNet, their online portal that offers 24/7 online sales support, catalog searches and ordering. By adding access to Maxiforce's 3 additional distribution centers in Florida, Indianapolis and California, plus IPD's current 6 global centers, IPD Xtra shipments will reach customers quickly.

Source: IPD (Industrial Parts Depot, LLC)

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AGF Access Provides Equipment for REM, Montreal's Light Rail Project

Montreal, Quebec-based AGF Access Group (AAG) was selected by NouvLR to supply equipment and services to assist with the construction of the Édouard-Montpetit station, part of the new Réseau Express Métropolitain (REM). The REM is an electric and fully automated metro transit network and is the largest mass transit project in Quebec in the last 50 years.

Jamco, AAG's construction hoists and transport platform rental arm, provided a Hydro Mobile S Series transport platform for the initial phase of the project and will provide a temporary construction elevator for the second phase. Dedicated operator safety training, fences, stair towers, a small fixed platform, pier access to formwork, hoarding and other services are also being provided.

The construction of the Édouard-Montpetit station required the digging and removal of 30,000 m³ of rock, as well as building the entire infrastructure for the



station. During the digging phase, an electric Hydro Mobile S Series provided access for personnel to build the base of the deep pit and to start erecting the steel structure, approximately 70 m or 20-stories down.

The S Series has a capacity of 2,449 kg and travels at 9 m/min. The platform has overhead protection, emergency descent system and overload protection.

AAG engineers developed a customized approach in which chemical epoxy anchors affixed the TP to the rock face.

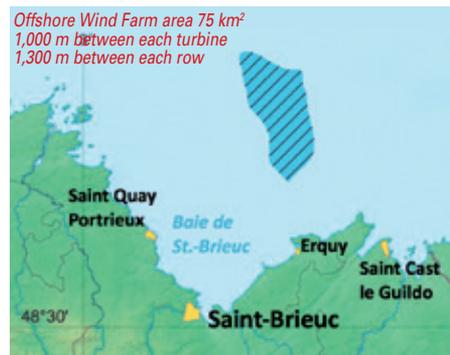
"In my 40 years of experience, I have never seen a project like this," said Marcel Jameus, president, Jamco. "Usually, we anchor transport platforms by drilling directly into the concrete, but because the wall is made of limestone, we developed our own innovative solution."

Once the pouring phase begins, workers will efficiently travel 61 m/min using a temporary construction elevator from road level to the pit's bottom and back.

"Our extensive experience with infra-

BAUER Selected for Saint-Brieuc Offshore Wind Farm

The Saint-Brieuc offshore wind farm will be the first large-scale offshore wind farm in Brittany and one of the first in France to obtain all the necessary government permits for its construction and operation. It will be built on an area of 75 km² and comprise 62 turbines with a capacity of 8 MW each supplied by Siemens Gamesa.



So in total, the wind farm will have a capacity of 496 MW.

Once commercial operation begins in 2023, the 2.5 billion € (3.85 billion \$) wind farm located 16.3 km off the French coast, will meet the energy needs of 835,000

people.

The Dutch marine contractor Van Oord awarded German specialist foundation company BAUER Spezialtiefbau GmbH to install 190 bored piles at 62 locations for 3-legged jackets, as well as one substation location consisting of a 4-legged jacket foundation. Van Oord will start the offshore operations in 2021 with the installation of the bored piles using its offshore installation vessel Aeolus. The Aeolus will be assisted by a second vessel in 2022 to install jackets foundations.

BAUER Spezialtiefbau GmbH is going to provide and operate the drilling and grouting operations for the subsea operation, including the use of 3 newly designed BAUER Dive Drills DD 40 U, which will work simultaneously up to 47 m penetration depth in a rock structure up to 160 MPa and in a water depth of up to 37 m. Finally, onboard Aeolus, Bauer will execute grouting operations to fix the 190 bored piles at the drilling location.

For BAUER Spezialtiefbau GmbH this project is a consequent development of



the underwater drilling expertise gained over the last years and with the full support of the sister company BAUER Maschinen GmbH. The Dive Drill is designed for mixed soil and rock conditions and as a sustainable and environment friendly equipment. It is powered by electro hydraulic energy supply – a next step in the reduction of the CO₂ footprint.

Source: BAUER Spezialtiefbau GmbH

structure projects has led to providing access solutions for another iconic Montreal construction project," said Alex Di Domenico, vice president, Major Projects, AAG. "Combining a high-quality Hydro Mobile transport platform and construction elevator, the ingenuity of the AAG engineering team, and Jamco's excellent customer service offers a superior access solution for this transformative Montreal construction project."

The Édouard-Montpetit station will be one of 26 stations on the new 67 km-long network. NouvLR (SNC-Lavalin, Dragados Canada Inc., Groupe Aecon Québec Ltée, Pomerleau Inc. and EBC Inc.) won the contract in 2018 to do the engineering and general construction of the entire project. Work on the Édouard-Montpetit station began in July 2018 and will continue until 2022.

Source: AGF Access Group



New Cat Compact Wheel Loaders Deliver Added Performance

Caterpillar has added 3 new models to the Cat® M Series compact wheel loader range, each with significant design enhancements: 910, 914, and 920, the latter replacing the 918M. New options are available, and certain features available only as options on former models are now standard. All the new models are available in a high-lift configuration, and the 914 and 920 are available in an aggregate-handling configuration.

The new Cat C3.6 engine has the same torque performance as the Cat 4.4 it replaces. It comes with a modest horsepower boost, and up to 5% gains in fuel-efficiency. The Cat C3.6 meets Tier 4 final emission standards. Fuel-tank capacity also is increased, allowing extended work cycles.

New auxiliary lines are available (from mid-lift arm down to the coupler) for all the new loader models when the 3- or 4-valve option is selected. This feature allows ease of use for more work tools within the Caterpillar portfolio.

Source: Caterpillar

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PHIL Introduces SSAB Hardox® HiAce Steels for Acidic Environments

Philippi-Hagenbuch Inc. recently introduced SSAB Hardox® HiAce steel for products operating in acidic environments. PHIL has used Hardox material exclusively in its range of custom products – including truck bodies, water tanks and trailers – since 1983. As technology has changed in SSAB’s steel-making process, PHIL employed harder versions of the Hardox material – starting with Hardox 400, and moving to Hardox 450 in 2000, standardizing on one specific grade along the way. The recently introduced HiAce material is specially formulated to provide an optimized life in high-acid environments. With strategic employment, PHIL can provide long-lasting equipment for industries such as mining, construction and other applications working with acidic materials.

“This new material is a game changer for us,” said Josh Swank, vice president of sales and marketing for PHIL. “Previously, when a client requested water tanks

to haul slightly acidic water, our engineers were forced to add elements, such as sacrificial anodes, that allowed the tank to withstand the non-potable water’s chemical properties but didn’t provide the durability and longevity PHIL products are known for. With the introduction of the HiAce material, we can build water tanks and other products that will extend longevity in ways we could not achieve previously.”

Hardox HiAce drastically slows down the oxidation process, allowing the full hardness of the material to counteract wear, providing the same performance as Hardox 450 steel even with acidic materials. This allows PHIL to use a thinner plate without jeopardizing the product’s service life, providing more payload when fully loaded.



Additionally, the thinner plate lowers the overall weight of the truck when traveling empty to save on fuel and reduces CO2 emissions.

PHIL will use the HiAce material in 3 unique areas: Water Tanks, HiVol® Refuse Bodies and Bio-Solid/Mulch HiVol® Bodies. These products haul material with a higher acidity than their traditional counterparts.

Source: Philippi-Hagenbuch Inc.

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Valtra and Nokian Tyres Join Forces in Autonomous Snow Removal Project

Robotic vacuum cleaners and lawnmowers are already reality, but can the same idea be applied to a 7-t machine clearing an airstrip from snow? To show it can, Valtra and Nokian Tyres partnered up with 3 other Finnish companies in March 2019 for a joint proof-of-concept project at the European Union's northernmost airport. Two Valtra T254 Versu equipped with Nokian Hakkapeliitta TRI tires and each pulling a 4.5 m wide Vamma sweeper blower autonomously cleared the runway at Ivalo airport in Finnish Lapland.

Winters in Finland can be very long, with many parts of the country covered permanently in snow for 150 and up to 200 days a year. "As an airport operator we need to create summer conditions on Finnish runways even if it's the middle of the winter. To meet this challenge we are constantly searching for new solutions that support our world-class snow-how," said Henri Hansson, technical director of Finavia, the



organization responsible for maintaining the majority of Finnish airports.

This is how the idea for the project "Runway Snowbot" was born.

"Runway Snowbot is a proof of concept, showing that by combining the know-how of 5 Finnish companies, airport runways can be cleared in a new way – more safely, more sustainably, more economically and more comfortably," says Matti Tiitinen, senior brand business manager for Valtra.

Tractor specialist Valtra has been work-

ing on auto-guided tractors for several years. Together with Nokian Tyres, both brands set the speed record for unmanned snow-plowing in 2018. For the "Runway Snowbot" Valtra SmartTouch features such as auto-guidance with centimetre-level precision, Isobus implement control provided the technology needed for the controlled clearing of predefined routes.

With Nokian Hakkapeliitta TRI tires, the autonomous snow-clearing project has got the grip and accuracy needed for safe driverless tractor operation – while also being gentle to the tarmac.

"Without the driver carrying out instinctive corrections for steering and throttle, the tires must offer very predictable handling", said Toni Silfverberg, head of sales and marketing, Nokian Heavy Tyres Ltd. "What's more, the operation without studs, the low rolling resistance of Nokian Hakkapeliitta TRI and our sustainable manufacturing process all add to the overall economy and sustainability."

Both the Valtra and the Vamma sweeper blower were fuelled with Neste MY renewable diesel which reduces greenhouse gas emissions approximately 90% compared to fossil diesel.

Although not yet quite ready for commercial implementation, the project paves the way for new way of thinking.

"Tractors are an interesting alternative for airport fleets where working widths of 4.5 m are sufficient. Tractors are considerably less expensive in total cost of ownership than trucks and much more versatile as they can be used for other tasks during summertime," commented Tero Santamanner, Finavia machine equipment specialist.

Source: Valtra Inc.

Bridgestone Acquires iTrack

Bridgestone Corporation recently announced it has completed the purchase of the iTrack Solutions Business from UK-based Transense Technologies PLC. iTrack is a globally-preferred provider of tire management solutions for the off-the-road (OTR) vehicle market. The business offers a comprehensive tire



pressure monitoring system (TPMS) specially designed for mining tires. In addition to tire temperature and pressure monitoring, the iTrack tire management platform provides customizable geofencing, speed alerts and more to help mining customers optimize their operations for increased productivity and profitability.

"This acquisition helps move Bridgestone closer to its goal of becoming a leader in sustainable and advanced mobility solutions," said Tomohiro Kusano, vice president and senior officer, G-MAA (Mining, Aircraft, Agriculture) solutions business, Bridgestone Corporation. "As a global solutions provider, Bridgestone will create new value for our customers by delivering tire and mobility-related data that enhances their operations."

Bridgestone entered into a joint collaboration agreement with Transense in August 2019 and began referring OTR customers to the iTrack solutions platform at that time. Customer response to the tire management platform has been positive. Bridgestone will expand this offering to additional OTR customers as it fully integrates the solution into its portfolio.

Source: Bridgestone Corporation



The Challenging Project that brought PRINOTH to Antarctica

PRINOTH built a vehicle designed to transport very large loads with less personnel and less impact on the environment for Troll, the Norwegian Antarctica Station. Reducing overall operational costs through lower fuel consumption, reduced total time of transport and by minimizing the number of people dedicated to transporting fuel and goods in the Antarctic region were among the priorities.



Troll is an all-year research station located 235 km from the coast. It is operated by the Norwegian Polar Institute and features facilities for the Norwegian

Meteorological Institute and the Norwegian Institute on Air Research.

With this particular project, PRINOTH was able to demonstrate its capacity to develop complex vehicle solutions that are ambitious, highly specialized and in some cases ground-breaking, yet keeping safety as a paramount priority. Operating in the Antarctica region requires extreme levels of safety precautions and this project certainly proved to everyone that PRINOTH

is ready to take on the challenges found in the harshest environments.

The concept vehicle was validated during the 2018-2019 season and has been fine-tuned to optimize its performance and comfort.

Source: PRINOTH Ltd.

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“Ice Explorer” Tour Vehicles to Meet Tier 4 Standards

Deep in the Canadian Rockies, straddling 2 national parks, lies one of the largest non-polar ice fields in the world – the Columbia Icefield. It is home to 6 major glaciers and, located in the northwest corner of Banff National Park, lies the most imposing one – the Athabasca Glacier, covering an area of roughly 650 ha and standing between 100–300 m thick.

Thanks to its accessibility, the Athabasca Glacier holds the distinction of being the most visited glacier in North America. To ensure safe tourism to the region, local

tour companies such as Columbia Icefield Adventure use specialized vehicles called Ice Explorers, which provide all-terrain mobility and the ability to safely drive onto the glacier to provide an up-close experience to the majestic sights.

The Ice Explorer coaches are workhorses,



transporting thousands of passengers daily during the glacier's open season from mid-April to mid-October, running up to 16 hours a day. Originally equipped with Detroit Diesel engines, Columbia Icefield Adventure began upgrading the powertrain systems of several coaches in its fleet last year to meet Tier 4 final exhaust emissions standards as required by Environment and Climate Change Canada.

Columbia Icefield Adventure turned to Wajax Power Systems, a MTU distributor that operates 100 branches across Canada, who provided a full ground-up rebuild for 3 initial coaches, including new powertrain systems featuring the current MTU Series 1000 engines.

“Every component in powertrain of the coaches was replaced with new,” said Rob Smith, customer account manager for Wajax. “The engine, transmission, cooling system, cabin heating system, drivelines, axles, suspension and more were all replaced. Not only did we handle the upgrades, we also provide continuing service support for the coaches from our locations in Calgary and Edmonton and on-site via our mobile field technicians.”

The MTU Series 1000 engines also deliver significantly lower fuel consumption than previous engines and are built to ensure continuous operation.

The operators of the updated coaches are finding these much easier to drive and quieter in operation.

“The quieter engine and the new silent braking system add to the passenger experience by removing distracting noises,” said Corey Donovan, general manager, Columbia Icefield. “Without distracting noise from an idling engine and noisy brakes, our guests are free to soak in the magic of the glacier.”

Source: MTU Online

4x4 Off-Road Bus Wins Prestigious Design Award

The Torsus Praetorian has been awarded a prestigious Red Dot Award in the Product Design 2020 category for its outstanding design quality.

Torsus, in partnership with independent transportation and industrial design studio Werkemotion, designed the Praetorian to transport personnel and equipment safely across the world's harshest environments, the Praetorian is based on an upgraded heavy-duty MAN chassis and is powered by a MAN engine and drivetrain.

It is engineered to take on any terrain, in any conditions, anywhere in the world. It utilises a gamut of heavy-duty features including Michelin off-road tyres as well as Line-X™ military grade coating on body parts.

For more than 60 years, the Red Dot Award has provided a platform for designers and companies to assess good design. Each of the 6,500 products entered into the competition, from 60 countries worldwide, were tested and judged by an expert jury in search of the very best in design and innovation. Over several days, the jurors test all the entries to assess the aesthetic, the materials selected, level of craftsmanship, surface structure, ergonomics and functionality.

“It's a privilege and an honor for us to be awarded the globally respected and admired Red Dot award, for the outstanding design of our iconic Torus Praetorian,” said Vakhtang Dzhukashvili, founder and CEO of Torsus. “We are very proud to accept this award and it is testament to the skilled work of the Torsus team and our design partners at Werkemotion who, together, helped produce the world's toughest and most capable off-road bus.”

Founded in 2016 Torsus is based in Prague in the Czech Republic. Its vehicles are manufactured in a purpose-built factory in Slovakia. It sells mainly to customers in heavy industry, utility and government service sectors. In addition to the core operations Torsus produces special vehicle variants according to customer specification – no limit is set on versatility.

Source: Torsus



BCIT Electric Vehicle Maintenance Training Program

With support from CleanBC, a new electric vehicle (EV) training program for automotive technicians has successfully completed its first pilot last December, and will be available to the public in 2020.

The newly developed EV Maintenance Training Program at the British Columbia Institute of Technology (BCIT) will make sure the province's workforce has the skills and training needed to support more electric vehicles on the road. Under government's CleanBC plan, all new light-duty vehicles sold in the province by 2040 will be zero-emission vehicles.

"This training program is a game changer and part of where the world is going as we switch to zero-emission vehicles," said Michelle Mungall, Minister of Energy, Mines and Petroleum Resources. BC has the fastest increase of EVs on the road, with 30,000 now. So we're going to need mechanics, and BC is the first province to offer this kind of training. This is an example of the thousands of new jobs and



opportunities we'll see under our CleanBC plan to boost the economy, reduce air pollution and make life more affordable."

BCIT has completed the pilot of the program with the City of Vancouver's green-fleet technicians. By working with the city, BCIT was able to develop and test an EV curriculum with 12 Red Seal mechanics. The partnership has helped the city on its path to become one of the greenest cities in the world and has continued BCIT's

ongoing leadership in sustainability and training.

Vancouver has one of the largest Canadian municipal EV fleets, with 120 EVs in service. Expanding the EV fleet is a key component of the city's Climate Emergency Response, which has set a target of deriving 100% of energy used by the fleet from renewable sources before 2050.

Source: British Columbia Institute of Technology

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Mercedes-Benz EQV in Endurance Test in Ice and Snow

Commercial and private users place the same demands on electric vehicles as they do on equivalent vehicles with combustion engines: complete reliability and functionality – even in severe conditions. That was exactly what the winter test of the Mercedes-Benz EQV 300 focused on. For several weeks, the development team subjected the first purely battery-electric premium MPV from Mercedes-Benz to an endurance test in Arjeplog, Sweden under severe climatic conditions. At temperatures reaching -30°C with icy roads and deep snow, the EQV proved its operability under extreme conditions. Thus, the vehicle completed one of its last milestones on the way to its market launch in the second half of 2020.

The vehicles were put through numerous complex tests on the test site close to the Arctic Circle. Over 30 engineers, electronics experts and mechanics drove over roads and frozen lakes, measuring the effects of extreme cold on handling,

ergonomics and comfort. The starting behavior and low-temperature resistance of the drive components, software and interfaces, and the thermomanagement of the entire vehicle, were tested in cold cell facilities.

A further important element of the test: charging behaviour. The EQV is equipped with an integrated fast-charging function with which it can recharge from 10 to around 80% of its energy in 45 minutes. This is a great advantage, particularly when travelling, but it must function reliably regardless of the temperature.

The EQV is the second model of the Mercedes-Benz "EQ" technology brand. It is available in 2 wheelbase lengths and with a permissible gross vehicle weight of 3500 kg. The high-voltage battery is inte-



grated into the underbody so that no space in the interior is sacrificed. The electric drivetrain of the EQV is located on the front axle. Peak output is 150 kW (204 hp), the Mercedes-Benz EQV achieves a maximum torque of up to 362 Nm (267 lb ft). It can reach a top speed of 160 km/h.

Source: Daimler AG

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Appointments

Stertil-Koni recently announced that **Carl Boyer** has been named Midwest regional sales manager.

In his new post, Mr. Boyer brings nearly 3 decades of client-focused sales management, business development and customer service experience to this key Stertil-Koni role.

Carl Boyer will manage a territory that includes Illinois, Ohio, Indiana, Kentucky, Michigan and parts of Wisconsin – supporting Stertil-Koni’s exclusive distributor network serving these states.

Most recently, he served as shop equipment specialist at Stertil-Koni, where he focused on the expansion of the company’s product line and customer base in the heavy-duty equipment field. He was responsible for product sourcing, sales, new business development and managing relationships with customers.

“Carl is a seasoned pro in the heavy-duty vehicle lifting industry and has a deep understanding of both the product line and the needs of our end-users – coupled with extensive experience in working with a dedicated distributor base. He fully embraces our focus on delivering exceptional customer service and we look forward to him contributing to expanding sales in his territory and making a key contribution to our results,” stated Dr. Jean DellAmore, president of Stertil-Koni USA.

Source: Stertil-Koni



Supreme Manufacturing is pleased to announce its recent hire of **Elliot Archibald**, who joins as vice president of sales and marketing.

Mr. Archibald is a 3rd-generation member of the aggregates and mining industry and joins Supreme by way of the company’s relationship with Q4 Impact Group, a renowned consulting and communications firm in the industry, where he previously oversaw new business development.

Supreme Manufacturing specializes in green and efficient deep mining floating clamshell dredges, rock barges, conveyors, processing equipment and professional services. The company provides solutions for customers to utilize valuable resources in an economical manner so no profits are left behind. Headquartered in Stoneboro, Pennsylvania, Supreme Manufacturing has been providing solutions to operations for over 28 years.

Source: Supreme Manufacturing Inc.



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Takeuchi-US has hired **Jeff Stewart** as vice president and general manager, effective immediately. In the newly created role at the company, he will oversee parts, service, IT, facilities and non-machine related warehouse operations.

While Mr. Stewart is a new hire, he has previously been employed in various roles with Takeuchi, spending 13 years with the organization. Most recently, he held various roles at Alimak Hek Group in Webster, Texas, including vice president of the after sales division and national service manager. He had been at Alimak for 7 years.

The position is among a myriad of changes and new hires in the product support area, including Rick MacLeish who recently joined Takeuchi as national parts manager. These changes are an effort not only to bolster the department, but also to focus on improving support for customers and dealers.

Additionally, this is in response to record sales in 2017, where there were increases in all areas of the business and business segments.

Source: Takeuchi-US



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Ford Introduces the 2021 Bronco

Ford recently unveiled the 2021 Bronco an all-new family of rugged off-road vehicles.

The Bronco brand relies on its heritage-inspired style, engineering and smart off-road technology to help outdoor enthusiasts create adventures in the most remote corners of the world. Bronco owners can choose from an extensive lineup of more than 200 factory-backed accessories for maximum personalization, enabling dealers to provide outfitting-on-demand for each customer's individual adventure needs.

Just like the original Bronco, nicknamed G.O.A.T. (goes over any type of terrain), the mission of the 2021 Bronco is to deliver maximum 4x4 go-anywhere, anytime capability. Up to 7 driver-selectable modes are offered for on- and off-road driving.

The base 4x4 system utilizes a 2-speed electronic shift-on-the-fly transfer case, while the optional advanced system features a 2-speed electromechanical transfer case that adds an auto mode for on-demand engagement to select between 2H and 4H. Power is distributed to a Dana™ 44 AdvanTEK® solid rear axle and Dana AdvanTEK independent front differential unit – both with available Spicer® Performance-TraK™ electronic locking differentials for improved traction over rough terrain. Off-road capability is possible thanks to a generous ground clearance, breakover and departure angles, and water fording depth.

An available semi-active hydraulic stabilizer bar disconnect design provides maximum articulation and increased ramp angle index for off-camber terrain. This innovative system bests competitors by disconnecting during articulation; it can reconnect under all conditions to improve steering and stability at higher speeds.

Available 2.7 l EcoBoost V6 and 2.3 l EcoBoost I4 engines will be offered as well



as a segment-first 7-speed (6+1) manual transmission. A SelectShift® 10-speed automatic transmission is also available for

those who prefer an easier driving experience on- and off-road.

Source: Ford Motor Company

Jeep® Introduces 450-HP V-8 Wrangler Rubicon 392 Concept



The last time the “real” Jeep was offered with a V-8 engine was in the Malaise Era. Back in 1981, the 304 cu in (5.0 l) V8 in the Jeep® CJ delivered 125 hp and 220 lb ft of torque. Jeep enthusiasts have been clamoring for a V8-powered Wrangler for years and the new Jeep Wrangler Rubicon 392 Concept is an indication they may soon get their wish.

The Jeep Wrangler Rubicon 392 Concept is powered by a 6.4 l (392 cu in) V-8 engine that delivers 450 hp and 450 lb ft of torque. Dana 44 axles, a full-time 2-speed transfer case, electric front and rear axle lockers, 37” mud-terrain tires and a Jeep Performance Parts lift kit from Mopar combine with suspension enhancements, a more robust 8-speed transmission and the massive V8 engine to deliver the ultimate fun-to-drive Jeep vehicle with more off-road capability than ever in a Jeep Wrangler.

To accommodate the V8 engine and transmission, the Jeep Wrangler Rubicon 392 Concept features upgraded engine mounts and a modified frame. Suspension upgrades include new aluminum, monotube Fox shocks for improved damping and heat dissipation.

Built on nearly 80 years of legendary heritage, the Jeep brand offers a full line of vehicles that continue to provide owners with a sense of security to handle any journey with confidence.

Source: Fiat Chrysler Automobiles

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Agenda

Because of measures taken in many countries to counteract the coronavirus pandemic, it is essential to check whether an event you are interested in will take place and... on what date.

Hannover Messe

Cancelled
Hannover, Germany

Expo Grands Travaux

Postponed
Saint-Hyacinthe, QC Canada

CIM 2020 Convention

Cancelled
Vancouver, BC Canada

IFAT 2020

Cancelled
Munich, Germany

WasteExpo 2020

Cancelled
New Orleans, LA, USA

APOM Technical Day

Cancelled
Drummondville, QC Canada

AORS Municipal Public Works Trade Show

Cancelled
Barrie, ON Canada

The BIG Event Canadian Mining Expo 2020

Postponed
Timmins, ON Canada

Svenska Maskinmässan

Cancelled
Stockholm, Sweden

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

Rescheduled to June 15-17, 2021
Maastricht, the Netherlands

Hillhead 2020

Rescheduled to June 22-24, 2021
Buxton, Derbyshire, UK

steinexpo

Postponed
Homburg/Nieder-Offeiden, Germany



Intermat ASEAN

September 9-11, 2020
Bangkok, Thailand

APOM Technical Day

Cancelled
Saint-Zotique, QC Canada

InnoTrans 2020

September 22-25, 2020
Berlin, Germany

MINExpo 2020

Postponed
Las Vegas, NV USA

Intermat INDIA

Rescheduled to March 4-6, 2021
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November 24-27, 2020
Shanghai, China

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