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PUBLISHER

Jean-François Villard
editor@infrastructures.com

CONTRIBUTING EDITORS

Rob Holden
Robert Marenger
toronto@infrastructures.com

ADVERTISING SALES

sales@infrastructures.com

TELEPHONE

514-233-1295
613-862-1295
416-795-1295

FAX: 514-528-9932

ADDRESS CHANGES

Send us your address changes by E-Mail to:
subscriptions@infrastructures.com

MAILING ADDRESS

4330 Saint-Hubert Street
Montreal (Quebec) H2J 2W7

INTERNET

www.infrastructures.com



/InfraStructuresMagazine



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A Brief Word...

Like many of you I have been lamenting the cool, wet summer we are experiencing.

So to realize it is August already, and as usual InfraStructures is prompting you to prepare for winter, a chill ran down my spine.

The other day, a friend sent me some video of snowblower operations in Southeast Australia. I was teasing him and he thought I meant we were having snow in summer. I reassured him although it has been cool, it hasn't been THAT cool!

Well, there is snow in the pages of the magazine this month and if you manage winter operations it is time to let your blood run cold. Planning and buying or chasing up orders is now a priority.

We thought we would have summer, we may get winter earlier and more forceful than the weathermen are predicting.

Read, consider and act now before you get washed away in thought.

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On the cover: the Larue T95 Snowblower features options such as a hybrid mechanical and hydrostatic blower head that uses the power from both engines.

The hybrid version can move up to 7,500 t/h of snow at 40 km/h with up to 1,050 hp available at the blower head, other options include front-mounted sweepers with jet air blowers.

TIMKEN TO ACQUIRE GROENEVELD GROUP

The Timken Company recently announced that it has reached an agreement to acquire Groeneveld Group, a leading provider of automatic lubrication solutions used in on- and off-highway applications, for approximately US\$280 million (\$366 million). The transaction is expected to be accretive to adjusted earnings per share in 2017.

"The acquisition of Groeneveld will

further expand our presence in the automatic lubrication systems space, which we entered in 2013 with our acquisition of Interlube," said Richard G. Kyle, Timken president and CEO. "Groeneveld will bring a strong brand and management team, a global customer base and an industry-leading product portfolio that has an attractive market position in off-highway equipment and heavy trucks."

Groeneveld Group is headquartered in

Gorinchem, Netherlands, with manufacturing facilities in Italy. Automatic lubrication delivery systems, which enhance vehicle and machine uptime through automated maintenance and safety support, represent the predominance of the company's offering. The company also has a small telematics business, Groeneveld ICT, which provides solutions for truck fleet operators. Groeneveld Group employs approximately 600 people.

As part of the transaction, Henk Groeneveld, sole shareholder and non-executive president, will be retiring from the company. "Henk led Groeneveld for 4 decades and made it the company it is today, and he has put in place a great leadership team," said Mr. Kyle. "We wish Henk and his family well in retirement."

Over the last 5 years, Timken has diversified its portfolio beyond bearings, adding gearboxes, chain, belts, couplings, lubrication systems, industrial clutches and brakes, and a variety of industrial services to its portfolio. These product lines are marketed under industrial brands that include Timken®, Philadelphia Gear®, Drives®, Lovejoy® and Interlube™.

Source: The Timken Company

VOLVO HAS SOLD ITS SHARES IN DEUTZ

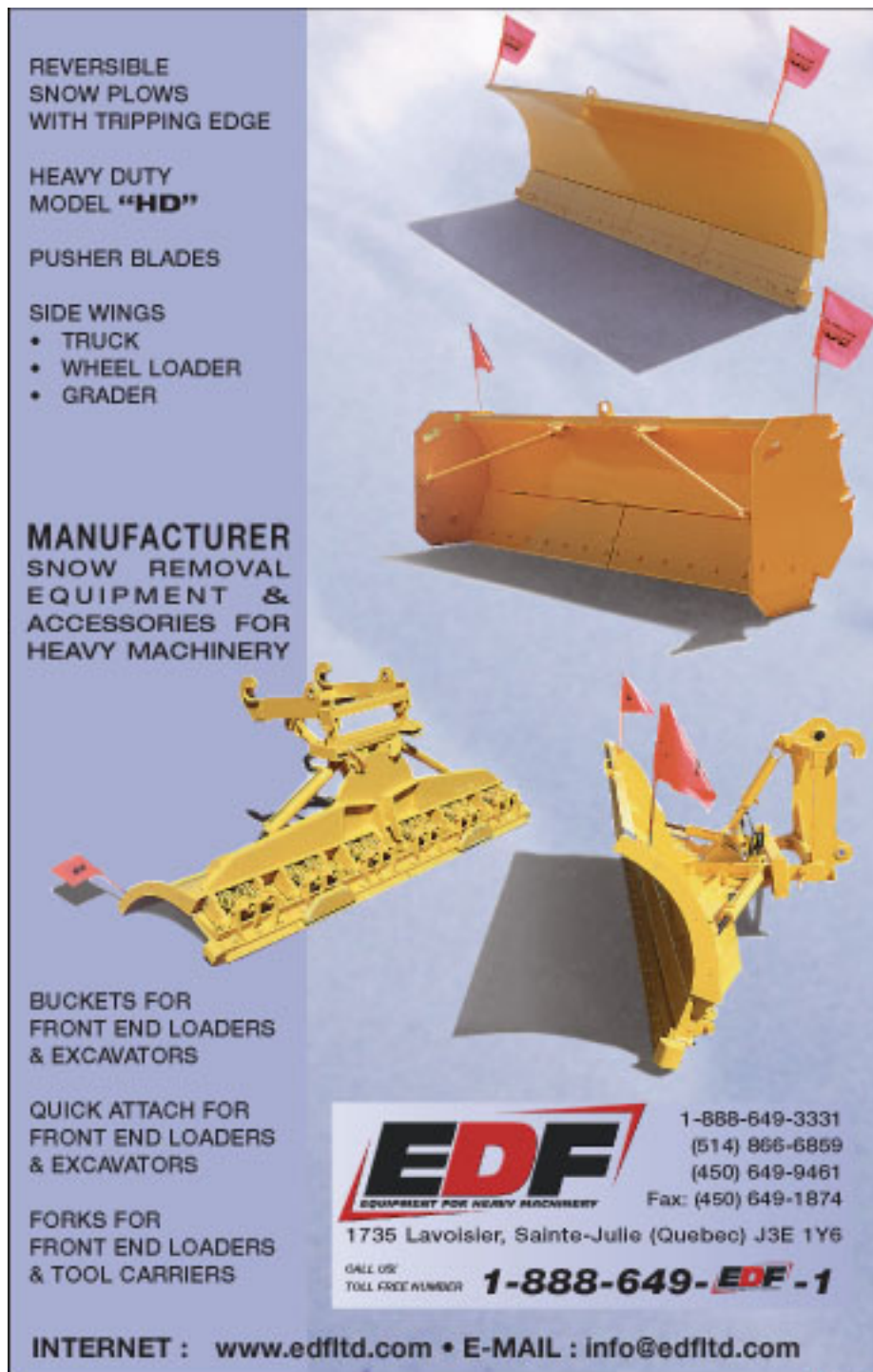
On July 7, 2017, Volvo Group announced it has sold its complete holding in the German engine manufacturer Deutz AG. Divestment proceeds amount to SEK 1,897 million (\$288 million). The sale will result in a capital gain of approximately SEK 350 million (\$53 million) that will impact operating income in the 3rd quarter of 2017.

Volvo Group has sold 30,246,582 shares, corresponding to 25% of total shares in Deutz. The sale will have a positive impact on the cash flow and the net financial position in the Industrial Operations. The capital gain will be reported in the segment "Group functions and Other".

Source: AB Volvo

TRC HYDRAULICS IS REXROTH'S NEWEST AUTHORIZED DISTRIBUTOR FOR INDUSTRIAL AND MOBILE HYDRAULICS IN ATLANTIC CANADA

Bosch Rexroth Canada Corp. recently announced the appointment of TRC Hydraulics as Authorized Distributor for Industrial and Mobile Hydraulics products (does not include Hågglunds and Compu-Spread



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technology) in all of Atlantic Canada.

The agreement which has taken a few months to complete provides Bosch Rexroth Canada with a strategic step to secure its future business in the region, with a stronger footprint in Atlantic Canada. TRC will support MRO, End User and Reseller business in the region. Bosch Rexroth Canada will be primarily responsible for OEM with a limited focused End User business. TRC together with Bosch Rexroth will work jointly to promote and introduce the latest technologies to the region.

TRC Industrial Hydraulics, founded in 1986 with over 30 years business experience and with approximately 100 employees, is located in 3 hydraulic full-service, sales and repair facilities across the region; Nova Scotia, New Brunswick and Newfoundland and Labrador as well as a manufacturing location in New Brunswick. Their manufacturing division TRC Manufacturing - custom designs, manufactures and provides full support to complete customer projects on time and on budget.

With this agreement, Bosch Rexroth Canada is well positioned to more effectively support MRO, End User and Reseller business in the region with industry recognized and globally proven Rexroth components and services, for their specific application requirements. Bosch Rexroth Canada, with sales offices in all major business centers across Canada, will continue its role to sell direct in regions and sectors that identify with its current business model. However, Bosch Rexroth remains market agile to explore a variety of channel partner options to achieve continued and future market growth success.

Tom Light, president of Bosch Rexroth Canada Corp., together with Terry Coyle, CEO of TRC Hydraulics Inc., are very optimistic about the growth opportunities for the 2 companies. Based on the strong quality and brand recognition of Rexroth Hydraulics with best-in-class application features, benefits and support services will now be represented and supported effectively by TRC Hydraulics - Atlantic Canada's largest and most technologically advanced hydraulics distributor, manufacturer and value-added service provider to their combined customers in the Atlantic region.

Source: Bosch Rexroth Canada Corp.

CASE CE ANNOUNCES 2017 "DIAMOND DEALER" AND "GOLD DEALER" AWARD WINNERS

CASE Construction Equipment has named its 2017 "Diamond Dealer" and "Gold Dealer" award recipients as a part of its North American Construction Equipment Partnership Program. The awards recognize dealerships across the U.S. and Canada for excellence in 5 categories including sales performance, marketing and communications, product support, parts support and training.

The 2017 Diamond Dealer award winners are: Birkey's Construction Equipment, Burris Equipment Company, Crawler Supply, Groff Tractor, Kucera Farm Supply (Ontario), Longus Equipment (Quebec), Miller Bradford & Risberg, Monroe Tractor, Nueces Power Equipment, and Redhead Equipment (Saskatchewan).

The 2017 Gold Dealer award winners are: ASCO, Burks Tractor, Crown Power & Equipment, Eagle Power & Equipment, Hills Machinery, HiTrac (1974) (Manitoba), Lawrence Equipment, McCann Industries, and State Equipment.

"This year CASE celebrates 175 years of practical innovation in the construction industry, but our success wouldn't be possible if it weren't for our extraordinary dealer network," says Scott Harris, vice president for CASE Construction Equipment in North America. "Congratulations

to all of our 2017 Diamond Dealer and Gold Dealer Award winners, who have shown a continued dedication to providing the ultimate ownership experience for our customers, and a true commitment to developing the CASE brand in North America."

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

Source: CASE Construction Equipment

OWENS CORNING INFRASTRUCTURE SOLUTIONS ACQUIRES CONCRETE REINFORCEMENT DIVISION OF HUGHES BROTHERS

Owens Corning Infrastructure Solutions, part of the Composites business of Owens Corning, recently announced that it has completed the acquisition of Aslan FRP®, the concrete reinforcement business of Nebraska-based Hughes Brothers, Inc. Terms of the deal were not disclosed.

Aslan FRP produces and markets glass and carbon FRP (fiber reinforced polymer) products, also known as composite rebar, used to reinforce concrete in new and restorative infrastructure projects such as roads, bridges, marine structures, buildings and tunnels.

"Infrastructure represents an important area of focus for Owens Corning Infrastructure Solutions to both grow our business

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and provide tangible, long-term benefits globally,” said John Amonett, general manager, Infrastructure, Owens Corning. “The addition of Aslan FRP broadens our portfolio of composite solutions and adds new products that enhance the performance of concrete structures, while being lighter-weight and more corrosion-resistant than conventional steel reinforcements.”

Composite rebar represents a compelling alternative to steel reinforcements with advantages including corrosion-resistance, improved durability, lightweighting, enhanced ease-of-installation, greater tensile strength and long service life.

Source: Owens Corning

ICYNENE INTRODUCES LOW EXOTHERM SPRAY FOAM INNOVATION INTO CANADIAN MARKET

Ontario-based global spray foam insulation manufacturer, Icynene, recently announced the launch of its latest high-performance closed-cell spray foam insulation product for the Canadian market – Icynene ProSeal LE. Icynene ProSeal LE offers the opportunity to achieve R-31 rapidly to help spray foam contractors save on labor costs.

A low exotherm innovation, an initial 127 mm pass of Icynene ProSeal LE can be sprayed in a combination 50 mm/50 mm/25 mm lifts to achieve R-31 in mere minutes versus hours. Icynene ProSeal LE features an initial LTTR 2.4 (m².K)/W (R14) at 50 mm (R14) and a LTTR RSI of 2.02 (m².K)/W (R6) at 25 mm and performs as an air barrier with an air permeance of 0.0005 l/s.m² at 35 mm.

“Icynene ProSeal LE is a game changing innovation from Icynene. This new product innovation allows sprayers to achieve R-31 in just minutes rather than hours. Our test trials have shown that there is up to 19% in labor cost savings,” said Bruce Young, Canadian regional sales director for Icynene. “Our R&D team has worked to develop and introduce the next generation of high-performance closed-cell spray foam insulation products that go beyond in delivering performance, applicability and range. The introduction of Icynene ProSeal LE reinforces our position as the industry leader here in Canada as well as across the globe.”

Complementing its low exotherm and LTTR attributes, Icynene ProSeal LE product features include: suitability for

cold weather applications as low as -5°C, GREENGUARD Gold certification, and excellent adhesion to itself and to substrates.

Source: Icynene

PHASE 2 OF ELLERSHOUSE WIND FARM IN NOVA SCOTIA IS NOW GENERATING CLEAN POWER

On June 29, 2017, the launch of phase 2 of the Ellershouse Wind Farm is being celebrated by Bullfrog Power®, East Coast

Credit Union, developer Minas Energy, and Alternative Resource Energy Authority (AREA), which is the facility owner. AREA, a partnership between the Towns of Antigonish, Berwick and Mahone Bay in Nova Scotia, was created by the towns to reduce energy costs, expand green mandates and develop new revenue streams for the municipalities. The second phase adds 3 turbines to the original 4-turbine wind farm in West Hants, near Ellershouse,

B'laster Products Now Available in Canada Through Wajax as Exclusive Industrial Distributor

Wajax is pleased to announce that it is the exclusive industrial distributor in Canada of B'laster products.

The B'laster Corporation is the maker of the No.1-selling penetrant in the U.S. and has been producing professional-grade penetrants, lubricants, rust inhibitors and full line of specialty formulas for professionals and consumers since 1957. For more than a decade, B'laster products have also been available to Canadian retail customers.

“We are pleased to be appointed the exclusive industrial distributor of B'laster products in Canada,” said Donald Charbonneau, manager of Safety and Mill Supply products at Wajax. “We are committed to working together with B'laster to serve our industrial customers, who will appreciate the quality and performance that this lineup of products will deliver for them.”

Among the B'laster professional-grade products now available through Wajax's integrated distribution system are the Original PB B'laster Penetrant, which quickly breaks loose rusted or frozen parts caused by rust and corrosion; B'laster High-Performance White Lithium Grease, a low-odor, clean, white grease that lubricates by creating a protective barrier against moisture and oxidation and which is safe for a wide range of applications; B'laster Industrial Graphite Dry Lubricant which creates a quick-drying film that provides long-lasting lubrication to reduce wear and extend equipment life; and B'laster Non-Chlorinated Brake Cleaner, which quickly dissolves and flushes away brake fluid, oil, grease and other surface contaminants from brake linings, rotors and drums.

Several other B'laster products also now available to Wajax industrial customers, including B'laster Pro-Grade PB-50 Multi-Purpose Lubricant, B'laster Industrial Strength Silicone Lubricant and B'laster Advanced Dry Lube with Teflon™, are formulated with Teflon™ fluoropolymer to help reduce friction and wear, enhance performance and protect surfaces.

“B'laster is thrilled to be partnering with Wajax to bring its products into Canada's industrial market,” said George Ebert, Industrial sales manager at B'laster. “Wajax is the right partner for us because of its resources and technical knowledge, and because its core values and mission align with those of B'laster.”

Source: Wajax





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Nova Scotia. The project is the first wind development in Nova Scotia to be funded and built independently of the local power authority or any provincial government incentive program.

"Bullfrog Power launched in the Maritimes in 2009 to mobilize and create further demand for renewable energy in the region. The launch of the second phase of the Ellershouse Wind Farm is proof of the impact that our customers, like East Coast Credit Union, are having in growing the amount of renewable energy generated in Nova Scotia," said Ron Seftel, CEO, Bullfrog Power.

The Ellershouse Wind Farm is the latest wind project supported by Bullfrog Power. Thanks to the support of Bullfrog Power's customers, the organization has been involved in the commissioning of wind farms across Canada, including some of Ontario's first wind turbines. In Nova Scotia, Bullfrog Power funded community-based rooftop solar projects with both Hope Blooms and The Deanery Project. Bullfrog Power has also helped to change Canada's energy landscape by offering innovative new products, including green natural gas in 2012, and, last year, a green fuel product to help businesses address their transportation-related emissions.

"The financial support of Bullfrog Power was important in ensuring the ongoing success of this project. By launching the second phase of the Ellershouse Wind Farm we are demonstrating real progress in developing new, cleaner forms of power for Nova Scotians," said David Devenne, Mayor of Mahone Bay and AREA vice chair.

Today, the 7 Enercon E-92 wind turbines have a total capacity of 16.1 MW, which is enough to power 4,900 Nova Scotian homes. All 3 of these towns' electric utilities as well as the Riverport Electric Light Commission purchase part of their energy requirements from the Ellershouse Wind Farm. In addition, Bullfrog Power sources the green power produced by the facility for its Maritime customers, such as East Coast Credit Union. AREA owns and operates the wind farm.

"Minas Energy believes that local stakeholders are essential in developing new renewable energy throughout Nova Scotia.

With the launch of its second phase, we're proud to see the continuing success of the Ellershouse Wind Farm," said John Woods, vice president of Energy Development, Minas Energy.

Source: Bullfrog Power

WORKPLACE SAFETY & PREVENTION SERVICES CELEBRATES 100 YEARS OF KEEPING ONTARIO SAFE

On July 17, 2017, Workplace Safety & Prevention Services (WSPS), the oldest and largest health and safety association in Ontario, celebrated its 100th anniversary as a committed leader to enhance workplace safety culture.

Established as the Industrial Accident

Prevention Association (IAPA) in 1917 to give voice to workers in the manufacturing and industrial sectors, WSPS now provides health and safety consulting and solutions to the agricultural and service sectors as well.

"We've come a long way since 1917," says Lynn Brownell, president & CEO of WSPS. "While we now take basic safety measures like fire-prevention sprinkler systems for granted, workers a hundred years ago did not enjoy the same safeguards. Going to work back then involved being exposed to high risk environments on a daily basis."

Today, WSPS supports the workplace health and safety needs of over 165,000

Western Star Expands OFFROAD Line with New XD-25



Western Star Truck Sales, Inc., has added a new option to its XD OFFROAD line. The new Western Star XD-25 is tough and versatile. Its 22.6 t capacity makes it ideal for smaller, off-road applications, such as construction, mining and quarry site hauling.

"The XD-25 provides yet another extreme duty option for customers who tackle the toughest challenges," said Kelley Platt, president, Western Star Trucks. "These units are specifically designed to handle off-road jobs without compromising fuel economy and cycle time efficiency."

The new XD-25 is available with a Tier 3 Series 60 or Detroit™ DD13® engine, and is powered by the Allison Off Road Series (ORS) transmission and planetary gear sets. Together, the engine and transmission combination results in more power for loaded applications and higher speeds when unloaded.

Additional features found with all Western Star XD OFFROAD products include rugged slipped spring suspensions, simplified maintenance components and metal fender butterfly hoods for long-life durability.

"Our customers want an off-road solution that has great ton-per-mile savings, and a lower purchase price over conventional articulated equipment. The XD-25 OFFROAD's low maintenance design and versatile platform configurations deliver on performance every time," noted Mr. Platt.

Source: Daimler Trucks North America LLC

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businesses that employ more than 4 million Ontarians.

"Our history as an organization is very rich," continues Ms. Brownell. "We've honored this legacy by bringing together health and safety expertise from 3 associations to create a dynamic professional team that is passionate about what we do. So, while our name has changed, our commitment has not. We will continue to work hard in close collaboration with our valued industry and government partners to create healthy and safe work environments where employees thrive and businesses prosper."

"Our government is committed to helping ensure healthy, safe and harmonious workplaces, and we deeply value our partnership with WSPS in furthering this important work," says Kevin Flynn, Ontario's Minister of Labor. "With our continued collaboration, in support of workplace health and safety, we will keep building up our thriving and dynamic province."

Source: Workplace Safety & Prevention Services (WSPS)

BLUEBIRD AND TROTTER & MORTON LEVERAGING B2W INFORM FOR PAPERLESS FIELD DATA COLLECTION

B2W Software recently announced that the company is assisting Bluebird Contracting Services and the Trotter & Morton Group of Companies move toward paperless field data collection with B2W Inform and its ability to create and manage electronic forms and mine form data.

Bluebird started using B2W Inform for its safety program, converting forms for weekly meetings, inspections and incident reporting—and the processes they support—from paper to the electronic format. Improvements in efficiency and accuracy over paper-based processes were immediately realized, according to Scott Adams, the B2W Systems Specialist at the Trotter & Morton Group of Companies.

Mr. Adams says the delay in getting information from the field about operations and safety is the biggest liability with paper forms. The lag time hampers responsiveness as well as strategic decision making. The structure, integrity and even the legibility of data on paper forms can also be problematic, he adds.

"With Inform, we customize forms for the specific information we need to

capture, and we lead employees down a path to providing responses in a structured format," he explains. "We take away opportunities for errors and make it easier to fill out the forms by using drop downs, check boxes, data binding to our B2W operations database and other functionality within Inform."

Incident-triggered Alerts & Notifications is a vital feature of B2W Inform. Almost every form template at Bluebird leverages the feature. Incident report forms, for example,

can be built so that checking "yes" for an injury generates an instant, automatic notification to specified recipients, such as the safety officer and the executive team.

Mr. Adams says having data from forms in an electronic format and accessible instantaneously also opens great opportunities for analytics and reporting, and the company has steadily increased the creation of routine and ad-hoc reports and dashboards. "You're not just filing the paper, you can actually pull information

Brokk Brings More Power and Safety, Less Noise with Darda Rock Splitter

Brokk®, the world's leading manufacturer of remote-controlled demolition machines, introduces the C20 Rock Splitter. The attachment, manufactured by Brokk's German sister company, Darda®, offers contractors a safe and quiet alternative to explosives and hydraulic breakers. It increases productivity in industries including mining, quarrying, tunneling, construction and demolition.



"We never stop looking for ways to improve safety with our machines," said Lars Lindgren, Brokk Inc.'s president. "Paired with a Brokk 280 demolition robot and counter weight, the C20 Rock Splitter allows our customers to split rock with all the speed and effectiveness of breakers and chippers, but without the noise, vibration and danger common with that type of equipment."

The C20 Rock Splitter comes in 4 models; 2 vertical options ranging from 163 to 183 cm long, as well as 2 horizontal options, from 179 to 211 cm long. Contractors can use the splitter with Brokk machines ranging in size from the new Brokk 280 – if used with counterweights – and up.

The C20 Rock Splitter quickly breaks large boulders and solid rock in mining and shaft sinking applications as well as cross passage work in tunneling. Contractors drill a 76 mm diameter hole into the rock with a separate attachment before inserting the splitter. The attachment expands with as much as 1,600 t of force, splitting the rock.

The method is quieter, safer and produces fewer vibrations and dust than breakers and explosives. It presents contractors with a productive alternative in areas where potentially disruptive demolition techniques are not allowed, such as near hospitals, plus it works faster than expanding demolition chemicals, which can take hours. It is also a safer alternative to hand-held tools, such as pneumatic breakers, that produce heavy vibrations and can cause worker fatigue that leads to injuries over time.

The C20 Rock Splitter, when combined with a Brokk machine, allows laborers to work from a safe distance – typically 3 to 6 m away – using a belt-mounted remote control box.

The C20 Rock Splitter is one of more than 70 attachments that operators can quickly interchange on a Brokk machine for greater versatility on a jobsite. Brokk supplies a wide range of remote-controlled machinery and attachments around the world to maximize productivity, improve efficiency and promote safety.

Source: Brokk Inc.

together, analyze it and use it to improve safety and performance,” he adds.

With B2W Inform firmly established for safety processes, Scott Adams anticipates an expanded range of use cases within the other divisions of Trotter & Morton. Inspection-related forms, including quality and equipment inspections, are a natural fit. “The value of Inform is supported by the fact that, as more and more people in our organization are exposed to it and use it, we’ve seen a continual increase in requests and ideas for using it in other areas and for new purposes,” he concludes.

Bluebird Contracting Services provides a wide range of heavy civil construction services across Alberta. Including civil infrastructure and roads, asphalt paving and concrete, earthworks and excavation, demolition, underground utilities, remediation and environmental services, and rail construction and maintenance. The Trotter & Morton Group of Companies is a diverse group of building trades experts offering a unique, integrated solution including site demolition and preparation, all aspects of construction, and ongoing maintenance.

Source: B2W Software

CLEARBAKK ENERGY SERVICES LTD. PARTNERS WITH KEMIRA CHEMICALS, INC

ClearBakk Energy Services Ltd. is pleased to announce they have executed a collaboration agreement with Kemira Chemicals, Inc. Under the terms of this agreement ClearBakk, based in Calgary, Alberta, will be the exclusive manufacturer of equipment for the wetting and hydration of polymers for use in Chemically Enhanced Oil Recovery (CEOR) and Oil Sands markets in North and South America.

The companies combine engineering and fabrication excellence alongside industry leading polyacrylamide polymer dissolution know-how to develop unique solutions for clients’ needs. Polymer shear mitigation strategies, rapid dissolution techniques, effective injection solutions and other critical variables are optimized with client requirements through direct collaboration.

ClearBakk and Kemira have successfully completed 2 projects together and are currently initiating a project to supply one of the largest polymer hydration facilities in the world.

Source: ClearBakk Energy Services Ltd.



Unimog Named Off-Road Vehicle of the Year 2017

For the 13th time in succession readers of Off Road, a German magazine, have voted the Mercedes-Benz Unimog the best off-road vehicle of the year in the “special-purpose vehicles” category. The Off-Road Vehicle of the Year poll had a total of 12 categories. More than 20 000 votes were cast, with 135 vehicles in the running. The Unimog took first place in the special-purpose vehicles category with a phenomenal 31.4% of readers’ votes.

Whether it is in the bone-dry Gobi Desert, in the Siberian taiga or on the hot volcano crater road on Vesuvius, there are few challenges that the Mercedes-Benz Unimog would not be capable of taking on.

The extreme off-road model series enjoys particular popularity worldwide as an expedition vehicle. Axle articulation of up to 30°, portal axles with ground clearance of up to 460 mm and gradeability of 45° are hallmarks of the Unimog U 4023 and U 5023. Further features include a maximum fording depth of 1.20 m and a lateral inclination angle of up to 38°. Driving in extreme situations with the all-wheel drive system engaged is supported by the selectable differential locks and the tire pressure control system.

The 5.1 l OM 934 LA Euro VI engine producing 230 hp and 664 lbfft of torque, ensures reliability on the move. A transmission with 8 forward and 6 reverse gears is available, as well as an off-road gear group for off-road applications in the 2.5 - 35 km/h speed range.

Available alongside this extreme off-road Unimog is the U 216 to U 530 implement carrier model series frequently seen in municipal applications. It is also equipped with cutting-edge Euro VI engines with outputs of up to 299 hp.

When it comes to maintenance, diagnostics or repair, the Unimog also has all bases covered. Expert authorized Unimog dealers look after the vehicle at more than 650 service outlets in over 130 countries.

Source: Daimler



Rolf Trampert, Head of Sales Special Trucks Germany, Austria, Switzerland, is happy about the award “Off-Road Vehicle of the Year 2017” for the Mercedes-Benz Unimog.



Sommers Generator Arrives Just in Time for Storm-Stricken Community

Timing is everything. Just ask Brent Goodwin, Fire chief and director of public works for the rural village of Rexton, New Brunswick.

For years, acquiring a generator for the fire hall was part of the disaster plan for Goodwin's community, which like so many in the Canadian Maritimes is hit almost each year with power outages due to severe storms. But, as with most small municipalities, the generator represented a notable expense that could fall out of the budget each year. In 30-plus years in the fire department, Mr. Goodwin had experienced many power outages of a day or even parts of 2 days, so getting by without a generator had become a fact of life.

Not this year. With funding support in place from community organizations, the Rexton Fire Department acquired a 30 kW generator by Sommers Generator Systems located in Moncton, New Brunswick.

Then, just 2 weeks after the new genera-

tor was delivered, installed and tested, the biggest power outage in Goodwin's life hit Rexton and much of the province.

"This ice storm was quite a different

ball of wax. A lot of places were without power for almost 2 weeks. In the area surrounding the fire hall, we were probably the only ones who had power for 2 days," says Brent Goodwin, whose department not only covers the village of about 1,000 residents, but a total of 120 km².

The Rexton fire hall also serves as an emergency operations centre... and became the hub for residents from both within the fire depart-

ment's catchment area and beyond.

"This is not really a warming center," explains Mr. Goodwin, "but it ended up being one because there were just so



many places without power. Usually, these events are a little more isolated than the entire province practically being out of

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power, so this ended up being quite a big event for us. It was really busy for a few days. The fire hall went around the clock for days straight."

Marc LeBlanc of Sommers Generator Systems had recommended that, instead of adding to the existing building, the Rexton Fire Department house the generator in an outside enclosure for a quieter operation.

While purchased to power the Fire Department specifically, it turns out the generator would be more than capable of servicing the entire building, which also houses a small ambulance detachment. Although powering all functions of the 700 m² fire hall including in-floor heating, the mid-sized unit never went above 67% capacity, even when firefighters were filling their trucks with water via an in-house pump.

"Although not a huge generator, it is the right size for this very active building,"



Wishing for years to acquire a generator, the Rexton Fire Department could not have picked a better time to do so. Within weeks, an ice storm hit rural New Brunswick and left the Rexton area without power for days.

says Mr. LeBlanc.

In 3 days of continuous service, the Sommers generator only burned about 400 l of fuel.

Source: Sommers Generator Systems

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Gas-Powered Prosperity in Asia Minor

Turkish pipeline contractor FERNAS Construction employs Volvo PL4809D rotating pipelayers on the Trans Anatolian Natural Gas Pipeline (TANAP) to bring Caspian gas from Azerbaijan through Turkey and onwards to Europe.

Gas pipelines export prosperity as much as they do energy – and TANAP is no exception. The development of the world's longest ongoing pipeline will improve security of both Turkish and southeast European energy supply and will enable Azerbaijan to diversify its gas export market.

TANAP will connect with the expanded South Caucasus Pipeline and transport gas over a distance of 1,850 km to Turkey's western border with the EU. From there, gas will enter the Trans-Adriatic Pipeline (TAP), crossing Greece and Albania before linking to the Italian natural gas network. The 3 pipelines form the main arteries of the Southern Gas Corridor.

The flow of gas will commence at the projected date of 2018. Initially, TANAP will supply 16 billion m³ of gas each year to Europe, of which 6 billion m³ will be delivered to Turkey. The gas will be sourced from Azerbaijan's Shah Deniz II field in the Caspian Sea, and will reach Europe in 2020, once construction of TAP is completed. Gradually, the pipeline's capacity will increase to 23 billion m³/y by 2023 and 31 billion m³/y by 2026. Final capacity is expected to be up to 60 billion m³/y of gas.

The project spans from the border of Turkey and Georgia to Eskisehir Province in northwest Turkey, and is being constructed in 3 lots. A tender was open to construct Lot 1, which will ultimately include 11 valve stations and 3 pig stations along its route. By the time all 3 sections are complete, the pipeline will have crossed 20 provinces, ending at the Greek border in the Ipsala district of Edirne.

The construction contract for Lot 1 was awarded to FERNAS Construction late last

year. This includes above ground installations and temporary camps to accommodate workers, as well as the building of pipe storage areas and access roads necessary during the construction phase of the pipeline.

Established in 1982 as part of the FERNAS Group, FERNAS Construction quickly built a reputation as a leader in the fields of industrial complexes, oil and gas, energy, road construction, hydraulic works, mining, telecommunications and building. Since 1996, it has represented Turkish construction, especially in the oil and gas sector, with successful operations in Qatar, India, Iraq, Bangladesh and Oman.

The company's pedigree makes it the ideal company to handle the construction of Lot 1, which will use 142 cm diameter pipe – the largest used in the industry. The pipeline will run for 375 km, between the Turkish village of Türk-gözü in the Posof district of Ardahan (located on the country's eastern border with Georgia) and Askale in the province of Erzurum. An estimated 150,000 pipe tubes will be required for TANAP, equating to an incredible total weight of 1.2 million t.

The construction of the US\$10 billion (\$13 billion) project is progressing at whirlwind speeds. The first part of the Lot 1 section, a 79 km stretch between Imranli and Sakaltutan has already been completed.

But the project is not without difficulties. For example, winter in Turkey, with temperature dropping to -25°C, combined with

its topography, makes for a challenging environment. Parts of TANAP's route reach altitudes of up to 3,000 m above sea level. In these areas, the construction season can



be down to only 110 days of the year. Hills and mountains, with gradients up to 30°, make up to 60% of the entire route.

FERNAS is using 5 Volvo PL4809D pipelayers, supplied by respected local dealer Ascendum in November 2016.

Initially, the pipelayers will be used to support bending and welding operations before moving on to laying-in alongside

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conventional sidebooms. Laying-in, or traveling on steep slopes presents a hazard. As gravity takes over, the pipe swings backwards, increasing weight to the rear of the machine. However, the Volvo PL4809D's unique 360° upper structure swing capacity allows the boom to be positioned uphill, enabling the load to be kept ahead of the machine, aiding stability and controllability.

The PL4809D units are specified with a 96 t tipping capacity, or 102 t with the additional counterweight, as well as excellent stability and onboard load management system (LMS). To prevent the risk of a machine from sliding, FERNAS equipped the machines with spikes welded to the tracks.

These combined features played a significant role in the completion of the Imranli-Sakaltutan section, cited as the most challenging segment of the pipeline. With some 6,050 pipes to be laid, each of 13-13.5 m long, transportation was the first



trial. The site is only accessible via 4 roads, so that forest paths had to be used for further transport operations.

FERNAS and its operators will continue to be supported through the project by Ascendum. Meanwhile, in neighboring Greece and Albania, Volvo equipment is hard at work with global pipeline contractor Spiecapag, engaged in both countries on sections of the TAP pipeline as it moves

to link up with TANAP. While 30 Volvo excavators and 4 pipelayers have been deployed for TAP in Greece, over 50 excavators – including EC380D long reach and 10 articulated haulers – are being used in Albania. In both countries, the PL4611 pipelayers will be used for unloading pipe, thanks to their 110 t tipping capacity.

Source: Volvo Construction Equipment

Hirschmann Provides Rated Capacity Indicator Solution for Volvo's Pipelayers

Volvo has partnered with Hirschmann MCS to install the cSCALE rated capacity indicator on their PL4809E and PL3005E pipelayers. Hirschmann's cSCALE solution provides a 7" color



graphic display of the pipelayer and monitors the maximum load and inclination. Sensors include angle, tilt, load pin, and anti-two block switch. An integrated datalogger / event recorder was also a requirement for the system.

"The Volvo load management system is the only one of its kind," said Tony den Hoed, lead engineer of Volvo's Pipelayer Product Platform. "The combination of logic developed by Volvo with hardware and software supplied by Hirschmann has set the bar for safety in the industry."

Source: Hirschmann MCS

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The MICHELIN X Multi D Is Engineered with Innovative Tread-Regeneration Technology

Michelin Americas Truck Tires, a division of Michelin North America, Inc., has introduced the MICHELIN® X® Multi™ D, a regional drive-position tire, for use in less-than-truckload, pick-up and delivery, food and beverage and other demanding vocational segments. The MICHELIN X Multi D is a versatile tire designed with an advanced regenerating tread that provides water evacuation and traction throughout the life of the tire while full-depth Matrix siping allows for a biting grip as the tread wears. The tire features co-extruded scrub-resistant rubber for first class mileage and cooler running rubber to help minimize heat build-up for increased casing life.

"This next-generation regional drive tire offers first-class performance and is designed to excel in high torque applications and delivers all the key performance benefits needed in a regional tire – traction, high removal mileage and scrub resistance – with no trade-offs," said Adam Murphy,

vice president of marketing for Michelin Americas Truck Tires. "With an aggressive open-shoulder design that contributes to outstanding water evacuation for an optimized contact patch in all-weather conditions, the new MICHELIN X Multi D delivers the maximum tread life, traction and casing durability fleets demand."

The X Multi D features a pass-through open shoulder that allows quick evacuation of water, mud and slush from beneath the tread surface area, and the biting edges of the tread allows the tire to grip onto surfaces right away, even in difficult snowy conditions, where competitors are left spinning their wheels. More grip, less slip – the X Multi D tire gets



up and running 80% faster than a leading competitor tire¹. The X Multi D tire will get 65% better mileage than the MICHELIN XDE® M/S tire². The sidewall also features TW6 OzoneShield™ technology for increased protection against weathering.

The X Multi D performance is backed by a confidence guarantee³. If the tire does not meet expectations for mileage, traction and driver satisfaction, then Michelin will reimburse any cost difference for a competitive drive tire.

Michelin is bringing this tire to market to serve the demanding needs of regional fleets, specifically those with 4x2 and 6x2 configurations. The tire is available in



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Scania Delivers Engines for Oshkosh Airport Products' Striker 8x8 ARFF Vehicle

Already supplying engines for the Oshkosh Striker 4x4, 6x6, Scania is now the exclusive supplier of engines for the new, Striker 8x8 ARFF Vehicle.



the United States, Canada and Mexico in 11R22.5 size in load ranges G and H, and 11R24.5 size in load range H, with additional sizes to follow in the coming months.

¹ In a standardized snow test, the 11R22.5 MICHELIN® X® MULTI™ D tire traveled 80% further from start versus the 11R22.5 Bridgestone® M726ELA. Actual results may vary.

² Results based on 2 small scale internal field test using customer fleet vehicles using MICHELIN® X® Multi™ D tires versus MICHELIN® XDE® M/S in 11R22.5 size.

Actual results may vary.

³ See your Michelin representative, authorized Michelin dealer for details.

Source: Michelin North America, Inc.

The Future Is Green: A Path Towards A Sustainable Environment

XVNYTH Manufacturing reinforces its commitment to the environment by offering a NEW eco-friendly ice melt that meets the LEED (Leadership in Energy and Environmental Design) standards – Winter Warrior Enviro LEADER Icemelter™. The company is the first and only to manufacture a product that can be used around “green” Buildings – from airports to shopping malls, from government institutions to all those in the property management sector including cleaning contractors, hospitals, hotels, restaurants, schools and ski resorts.

Winter Warrior Enviro LEADER Icemelter™ is very effective and powerful down to temperatures as low as -21°C. It is more practical and potent than using 100% CMA (calcium-magnesium-acetate), a dolomite lime and acetic acid formulation, acting as a corrosion inhibitor. Winter Warrior Enviro LEADER Icemelter™ is also green in color, biodegradable at low temperatures and safe on the environment. It has neutral pH balance of 7.5-8.5. When compared to other icemelters, like urea, it has a relatively low biological oxygen demand. It contains no nitrogen, so is safe around aquatic life as well.

Source: XVNYTH Manufacturing Corp.



The new Striker 8x8, powered by a pair of rear-mounted Scania DC16 770 hp, Tier 4 final engines, makes this the most powerful and capable ARFF vehicle in Oshkosh's history. This new product was launched at the 2017 Fire Department Instructors Conference, held last April in Indianapolis, Indiana.

“We are continuing to expand our alliance with Scania to better meet the varied engine requirements of our customers,” said Jeff Resch, Oshkosh Airport Products vice president and general manager. “Scania features industry-leading technology and reliability, as well as an excellent worldwide parts, service and support network. That’s a winning combination.”

“We are so proud to be the sole supplier of engines for the all-new Striker 8x8 ARFF vehicle,” says Art Schuchert, Scania USA's Sales and Marketing director. “It is very satisfying to see the end result of what has been a very smooth collaboration between our two companies during the prototyping process. This new ARFF vehicle is truly magnificent, and we expect Oshkosh to have a very successful market introduction.”

Source: Scania USA, Inc.

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John Deere Offers Updates the G-Series Motor Grader Lineup

John Deere is adding to its best-in-class G-Series motor grader lineup with the addition of 2 models – the 620G/GP and 622G/GP. The 620G/GP and 622G/GP are designed for cities, townships and contractors that prefer lighter and more fuel-efficient graders on the job. The Moline-based manufacturer is also adding a dual joystick option on all Grade Pro (GP) models, along with ripper-stow automation, courtesy lighting and an updated high-resolution reverse camera monitor, which are new to all G/GP models.

“Our G-Series lineup is all about offering contractors and governmental customers the grader of ‘choice,’ allowing them to choose the right machine for their application. Customers asked for a lighter and more fuel-efficient grader, and the 620G and 622G answer the call,” said Luke Kurth, product marketing manager, motor graders, John Deere Construction & Forestry. “We’re enthusiastic about the

new dual joystick option as well. Now operators and owners can select from the traditional antler rack mechanical controls, interchangeable GP fingertip controls or dual joysticks, whichever they prefer and are most productive with — all while retaining the steering wheel.”

Both the 620G and 622G boast the fuel-efficient Tier 4 final (T4f) 6.8 l diesel engine with 215 hp and 225 hp, respectively. The generous horsepower, torque and blade pull deliver the power and lugging ability to get through tough spots. The operating weights of the 620G (18,300 kg) and 622G (19,078 kg) are ideal for applications requiring smaller graders. Eco mode, standard on all John Deere graders, helps optimize fuel usage, decreasing operating costs by



an additional 5% to 10% compared to the larger 670G and 672G models.

The new dual joystick option provides intuitive control for operators who prefer joystick control to the standard antler rack. Hand motion is minimized during direction changes and gear shifting. In contrast to the competition, this option provides improved comfort of controls by eliminating the need to “twist” for blade circle or articulation.

Other updates to the G-Series line include the addition of a 7” high-resolution



The reduction in vibrations is one of the primary mechanisms responsible for longer blade life. Plows with PolarFlex tend to last significantly longer before repairs or re-welds are required. Vibration reduction also cuts down the noise both inside and outside the plow truck.



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reverse camera monitor that provides a clear picture to the operator when reversing around obstacles. Standard courtesy lighting turns on the machine lights as the operator exits the machine at the end of the day, which is especially important in dark conditions. On GP models, ripper-stow quickly returns the ripper to its fully raised position at the end of pass simply by double-tapping the control.

The G-Series features 8 models (620G/GP, 622G/GP, 670G/GP, 672G/GP, 770G/GP, 772G/GP, 870G/GP, 872G/GP) with net horsepower ranging from 215 to 300. The 622G/GP, 672G/GP, 772G/GP and 872G/GP feature 6-wheel drive, enabling them to power through the toughest cuts with power flowing to all wheels. It gives operators increased traction, the ability to get more work done in fewer blading passes and a 30% increase in blade pull.

The John Deere "open-architecture" design lets customers employ their favorite



brand of grade-control system. GP models come factory-equipped with bulkhead connectors, sensor mounts, electrical wiring harnesses, integrated controls and mold-board mast mounts. Machines can also be factory-installed with Topcon, Trimble or the new Leica ready kits to make installation quick and easy. All GP models come standard with automated cross-slope.

Fleet managers looking to get the most out of their G-Series motor graders can

rely on their John Deere dealers to provide Ultimate Uptime, featuring John Deere WorkSight. With Ultimate Uptime, owners receive predelivery and follow-up inspections that include 5 years of JDLink™ telematics, machine health prognostics, remote diagnostics, programming capabilities and the ability to add dealer-provided uptime solutions to create a customized package.

Source: Deere & Company




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Waterless Street Sweeping Enables Year-Round Use

Finnish Snowek's innovation Trombia does not use water, which increases efficiency and enables working in sub-zero temperatures.

The Trombia has received the EU PM10 street dust certification as the first waterless sweeper attachment in the world. In the PM10 test, Trombia was given the maximum of 3 stars.

Trombia technology uses a globally patent-pending solution for sweeping dust on fully dry surfaces. Unlike many competitors, Trombia sweeps streets without needing dust-binding water.

The PM test has been a European reference for the assessment of road sweepers for several years. Snowek points out that fine particles have become a serious threat to residents in many cities, and improving air quality poses a challenge to local authorities.

"Waterless cleaning process is the key to truly successful and efficient sweeping," says Snowek's managing director



Antti Nikkanen. "We see that all methods using water to bind dust on street surfaces require enormous energy and powered vacuum to sweep clean – our Trombia technology focusses on solving this global challenge. Also, saving water is important in all global industries going forward."

Snowek Oy was first established in 2011. It is based in Kuopio, Finland. The company designs high-end street sweepers

and pick-up brooms, as well as snowplows and other attachments for wheel loaders, loader-backhoes, excavators, tractors and trucks.

Source: Snowek Oy

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Terex Trucks Rigid Haulers Prove a "Perfect 10" in a Siberian Coal Mine

Located in south western Siberia, Kemerovo Oblast – also known as Kuzbass after the Kuznetsk Basin – is one of Russia's most important industrial regions. Infamous for its long and cold winters, where temperatures can plummet to -35°C, the province is home to some of the world's largest deposits of coal.

Helping to keep the energy flowing through Russia, a fleet of 10 Terex Trucks' TR100 rigid haulers are being put to work in the very heart of the country's mining industry. Selected for use by leading mining contractor Sovremennyye Gornye Tekhnologii (SGT), the proven dump trucks are working around the clock in an open-pit environment. The robust machines, which each have the capacity to bear a load of 91 t, were delivered to SGT through Terex Trucks' official distributor in the Russian Federation, Ferronordic Machines, in October 2016.

With an ambition to become a major supplier to the Russian mining industry, Ferronordic first started communications with SGT when the company issued a tender to enlarge its fleet with rigid haulers. Submitting a bid on behalf of the Scotland-based manufacturer, Ferronordic put forward a compelling argument for the Terex Trucks'

TR100's abilities, as well as a competitive service offering.

"Sovremennyye Gornye Tekhnologii was one of the first companies to employ Ferronordic's services within the mining industry. Alongside our ability to quickly supply quality products, we also provide high-quality maintenance, and the customer was satisfied with the proposed terms and conditions of our offering. So successful has this experience proven that it was one of the main triggers for the decision to purchase further machines from Terex Trucks," explains Alexander Shmakov, mining director at Ferronordic.

Covering a vast area of approximately 25,900 km², the Kuzbass coalfield was dis-

covered in 1721, but the first mines were established in 1907. Reaching a depth of 9.5 km, the seams of the basin contain anthracite and steam coals. Responsible for more than 30% of Russia's coal production, the Kuzbass has an estimated 300 billion t of reserves and is the main fuel and energy base for Eastern Russia.

Well suited to the adverse weather conditions of the Kuzbass, the TR100 provides

the perfect balance of power, effective gearing and optimum weight distribution to remove overburden efficiently. The rigid dump trucks' hydraulic disc brakes deliver better operator control, while the transmission retarder decreases brake wear, reducing ownership costs and increasing machine availability. Furthermore, the air suspension bears the load through variable-rate nitrogen-over-oil type struts, which ensure a smoother ride, reduces operator fatigue and helps boost production.

The first 2 of the 10 TR100 rigid haulers were assembled in just 3 weeks following their October delivery in kit form and quickly got to work on site. Since com-

missioning the trucks, SGT has recorded an increase in production, and noted that the Terex Trucks machines are easy to operate, and outperform other brands. The remaining machines arrived in Siberia in December and a team of engineers from both Terex Trucks and Ferronordic worked against the elements to put the haulers together – and put them to work.

"This was the first time that Ferronordic had assembled such huge machines," says Anatoly Amons, chief technology officer at Ferronordic. "However, we managed to gather a skilled team of engineers, and even in severe weather conditions of blizzards and low temperatures, the assembling process did not stop for a single day."

Once all the rigid dump trucks were assembled and commissioned by SGT, Ferronordic, with the support of Terex Trucks' service engineers, put the training program into operation at the mine. The team's intensive handover involved sharing knowledge with operators to guarantee that SGT receives the full benefits of the machines. The on-site service provided by Ferronordic also helped to strengthen its relationship with SGT, by reiterating the dealership's high availability, and commitment to offering excellent service.

"This was a complex deal that involved several stages and various specialists of Ferronordic, as well as our partnering sponsors and the manufacturer. Together we were able to offer shipment conditions and deadlines that were attractive to the customer. We believe the success of this deal will be the first step in a longer-term cooperation with Terex Trucks and Sovremennyye Gornye Tekhnologii," concludes Mr. Shmakov.

Source: Terex Trucks



AAL Delivers Giant Haul Trucks for Siberian Mining Project



AAL, one of the world's leading multipurpose operators, has successfully completed the shipment of 13 enormous haulage trucks from Laem Chabang Port in Thailand to the Port of Nakhodka in South-east Russia. The shipment was booked by AAL's Brisbane office and operated by AAL's Tramp & Projects team – a growing service established by the operator in 2011 to provide tailor-made and competitive shipping solutions to major industry projects around the world.

These Komatsu 830E ultra-class haul truck units – each over 14 m in length, weighing 170 t and featuring an immense 2,360 hp+ diesel powertrain – were transported on the 19,000 dwt S-Class AAL Dampier, on behalf of "2016's International Freight Forwarder of the Year", Freightplus. The trucks will be employed at a major Siberian mining project and are especially designed for off-road use in high-production mining and heavy-duty construction environments.

Namir Khanbabi, managing director of AAL's Tramp & Projects Division, commented: "We were delighted to partner with such a renowned freight forwarder as Freightplus and to have successfully completed the delivery of this important cargo ahead of schedule. The crane capacity of our S-Class fleet came into its own, giving Freightplus the assurance that each truck could be lifted, stowed and discharged at Nakhodka terminal without any reach issues. There was great communication between our 2 teams throughout the

operation, supported by the expertise and diligence of the ship's crew and the technical knowledge of our in-house engineering experts, drawing on their experience of working on over-sized and specialist cargo shipments for the mining sector."

"We came to AAL Shipping with very specific needs, in relation to stowage, crane capacity and reach, vessel length and draft, deck strength, schedule and budget and they tailored a solution for us that ticked every box. Being a regular user of AAL's services in the Asia-Pacific region, we knew its very competent and dedicated team could be trusted to deliver as promised and that's exactly what they did. They performed like a well-oiled machine and exceeded our expectations in every respect," added John Gleeson, CEO at Freightplus.

AAL has the sector's youngest fleet of new generation and technologically advanced multipurpose heavy lift vessels. The AAL Dampier is part of AAL's owned "S-Class" fleet, with each vessel featuring a combined lifting capacity of 700 t. These highly versatile vessels are designed to

load and transport all manner of industrial and commercial heavy-lift and dry bulk cargo to and from the busiest, or most remote, ports around the world.

AAL is one of the world's leading breakbulk, project cargo and heavy lift shipping operators, providing a unique



"total multipurpose solution" of tramp, liner and semi-liner services for its customers throughout Asia, Europe, Middle East and the Americas. Established in 1995, the company operates the multipurpose sector's youngest fleet – multiple classes of modern multipurpose heavy lift vessels (ranging from 19,000 to 33,000 dwt) and each designed to accommodate heavy lift and project cargo alongside breakbulk, containers and bulk.

Source: AAL



We Rise by Lifting Others: Dawes Crane Moves Memorial Phantom F-4 Jet Fighter

A crane operator from Dawes Rigging & Crane Rental maneuvered the Link-Belt crane into place. The weight of the plane was transferred from its display pedestal to the crane's extended boom. The pedestal's bolts were released one by one. With the last, the aircraft lurched free, and was briefly "airborne" once again.

This moment of flight was perhaps the most poignant nod to U.S. Air Force Captain Lance P. Sijan. He was an exceptional young man who was lost to his family and friends in the Vietnam War at the age of 25. But his story of determination and dedication endures.

For more than 2 decades, at 440th Airlift Wing of the Air Force Reserve in Milwau-



kee, Wisconsin, Capt. Sijan had been honored with a decommissioned, dedicated McDonnell Douglas F-4C Phantom jet fighter – a replica of the plane he was in when he went down. Then the 440th moved to Fort Bragg in North Carolina. It was important to Capt. Sijan's sister, Janine Sijan Rozina, to keep Lance's story alive and the symbol that represented him in his home state. Through her dedication and persistence, she was able to get the plane



relocated to a new plaza at the entrance of the General Mitchell International Airport in Milwaukee, where it would stand as a memorial for those who have served and to represent his courage, sacrifice, and leadership.

Moving a 11,800 kg plane is not a simple task. But gradually, Ms. Sijan Rozina assembled a team of contractors to make it happen. Each donated their time and effort to the task. Dawes Rigging & Crane Rental, a member of the ALL Family of Companies, was a proud part of this team.

Planning began last summer. Dawes sales manager Joe Ruddell would pilot the team that would lift the plane, load it onto a flatbed truck, transport it through a shallow tunnel, and then lift and set it onto the foundation in the new plaza. Dawes' Link-Belt HTC 86100-XL truck crane, with a 99.8 t capacity, was chosen for the job along with a Manac expandable trailer from DST Inc. (Dawes Specialized Transport). With its combination of maneuverability and strength, the HTC 86100-XL was able to get close enough to the pedestals in both locations.

On a rainy, windy moving day, the truck maneuvered through a tunnel that was so tight, the plane barely fit through, even with folded wings – a 5.5 m-high space, 5 m of it occupied by the jet. The team proceeded carefully, mindful of the legacy of the man and his memorial. Once they reached the plaza, the Link-Belt lifted the jet off the trailer and, with precision, set it onto its new pedestal, where it was bolted into place. Onlookers, including veterans and schoolchildren, were taken by the enormity of both the plane and what it represents.

In a May 17 interview with the Milwaukee Independent, Janine Sijan Rozina said her brother's is not a story of war, but of love for family, country, and comrades. She recounted Lance's firm philosophy that everyone should "Bring your best every day. It's not always going to be an A+, but it's your best for that day. [You need it] for the challenge you're unaware that is coming."

The ALL Family shares a similar philosophy, resulting in its reputation for meeting every lifting challenge head on – as surely does the entire team of contractors who banded together to make Ms. Sijan Rozina's dream happen.

"We are extremely proud to be part of a community that recognizes individuals like Lance, and have been privileged to count ourselves as part of the team who made this project possible," said Joe Ruddell.

Capt. Sijan was posthumously awarded the Medal of Honor in 1976. The F-4C Phantom is poised to honor Capt. Sijan's memory in perpetuity, thanks in part to The ALL Family and a sister who would not give up.

Source: The ALL Family of Companies

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BONDERITE C-CP Process Enables Environmentally-Friendly Stainless Steel Pickling

The BONDERITE C-CP technology, an innovative process from Henkel for pickling of stainless steel, is providing users with important cost and environmental benefits. Together with Henkel's expertise and service, it has already provided advantages for several of Henkel's customers in Italy and the Far East, where this technology has been introduced as an alternative to mixed acid processes.

Stainless steel strip coil, wire and tubes, as well as welded products (car and washing machine components are typical examples), can all be treated. Titanium products can also be treated using this patented process.

Formulations developed by Henkel for removing oxide layers formed during the rolling, annealing and welding of stainless steel stand out from classical mixed-acid pickling systems in one important way, none of them uses nitric acid. Thus, waste water contains no nitrates, which are difficult and costly to remove before the water can be returned to the river or sea. Furthermore, no unhealthy nitrous (NO_x) fumes are created during the BONDERITE C-CP process.

The most recent addition to the family of Henkel formulations is BONDERITE C-CP LF2. This is not only totally free of nitric acid but also very low in hydrofluoric acid, LF stands for Low Fluoride. "This product contains by far the lowest concentration of free fluoride of any established pickling chemistry, giving clear advantages regarding environment, safety and health aspects," says Hans-Oscar Stephan, Business Development manager, Metal Coil Europe at Henkel. "Risks associated with the process are much lower, while the performance of the process and quality of the treated substrates remain unparalleled."

Companies using mixed acid systems

are bound by the European Union's "Seveso Directive" aimed at improving the safety of sites producing or using large quantities of dangerous substances. BONDERITE C-CP LF2 eliminates or strongly reduces this need.

A further advantage of the Henkel prod-



uct is the reduced etching effect that it has on the bare metal once the oxide has been removed. Tests have shown that, when treating wire coil for example, losses of the stainless steel can be as much as 80% lower than when using alternative pickling solutions. This is roughly equivalent to a saving of 15 €/t (22.35 \$/t) of stainless steel.

BONDERITE C-CP LF2 also lasts over twice as long, since the dissolution of base alloy is reduced to a minimum. Overall, there is an important decrease in costs of the pickling process. Users can obtain better results than mixed acids on duplex and super duplex steel, as well as on materials treated without annealing (so-called as-rolled steel).

Mr. Stephan further points out that pickling activity using the Henkel product remains constant during the ageing of the solution. Furthermore, there is no sludge formation by metal salts, and the oxide scale sludge that is produced is easy to remove.

BONDERITE is a registered trademark of Henkel and/or its affiliates in Germany and elsewhere.

Source: Henkel AG & Co. KGaA

BorgWarner Enters Into Agreement to Acquire Sevcon

BorgWarner recently announced that it has entered into a definitive agreement to acquire Sevcon, Inc., a global player in electrification technologies. Sevcon complements BorgWarner's power electronics capabilities utilized to provide electrified propulsion solutions.

"This acquisition supports our existing strategy to supply leading technology for all types of propulsion systems; combustion, hybrid and electric," said James Verrier, president and CEO of BorgWarner Inc. "We look forward to welcoming Sevcon's talented employees to BorgWarner."

The completion of the transaction is subject to certain terms and conditions, including the approval of Sevcon's stockholders and receipt of required competition law approval. The expected enterprise value of the transaction at closing is approximately US\$200 million (\$250 million). The transaction is expected to close in the 4th quarter of 2017 subject to the satisfaction of closing conditions.

Sevcon is a global supplier of control and power solutions for zero-emission, electric and hybrid vehicles. Its products control on- and off-road vehicle speed and movement, integrate specialized functions, optimize energy consumption and help reduce air pollution. Sevcon's Bassi Division produces battery chargers for electric vehicles; power management and uninterrupted power source systems for industrial, medical and telecom applications; and electronic instrumentation for battery laboratories. The company supplies customers from its operations in the U.S., UK, France, Germany, Italy, China and the Asia Pacific region, as well as through an international dealer network.

Source: BorgWarner Inc.

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DEUTZ Names Marindustrial as New Distributor in Ontario

DEUTZ Corporation has signed an agreement with Montreal-based Marindustrial to be its new distributor in the Canadian province of Ontario. Marindustrial now owns the distribution rights to sell and service DEUTZ products in Ontario, including new engines and Xchange remanufactured engines. Marindustrial will also provide DEUTZ Genuine Parts, service and warranty support.

Marindustrial has served as an authorized DEUTZ distributor in Quebec, and DAC Industrial Engines, Inc. has served the Atlantic Provinces for several years. Marindustrial was the only North American distributor to achieve DEUTZ "Platinum" status in 2016.

"We're very pleased to expand our already strong relationship with Marindustrial," said Steve Corley, chief sales officer for DEUTZ Corporation. "They're very familiar with our engines and the high level of hands-on expertise our customers have come to expect. We have every

reason to believe that Marindustrial will continue to provide DEUTZ customers with top-quality sales and service, now in Ontario as well as the rest of Eastern Canada."

"This new acquisition provides us with additional synergies that will benefit DEUTZ customers and industrial OEMs, as well as end users and fleet operators," said Éric Nadeau, president of Marindustrial. "We owe this accomplishment to our employees' combined expertise and to the success of our dedicated DEUTZ business approach, which focuses on customer service and custom, value-added solutions. We are excited about this new opportunity, and we know that Marindustrial is well-



positioned to expand and support the DEUTZ product line in Ontario."

Founded in 1991, Marindustrial is a privately-held company serving industrial and marine customers. Marindustrial is a specialized distributor and service center of heavy-duty off-highway, mechanical and hydraulic, power transmission component.

Source: DEUTZ Corporation

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Briggs & Stratton Builds on Its Decades-Long Commitment to Baja SAE

Briggs & Stratton Commercial Power continues to strengthen its longstanding relationship with SAE International and the Baja Collegiate Design Competition. The company has been the exclusive provider of engines for Baja SAE since the program began. This year marks the first time teams were provided a 10 hp¹ Vanguard commercial engine.

Briggs & Stratton has sponsored the event since 1976 when Frederick P. Stratton Jr. partnered with SAE to provide dependable engines for the new Baja Collegiate Design Series. The event has since expanded to include about 2,000 active university programs around the world. In addition to providing Vanguard engines, Briggs & Stratton provides technical and engine expertise.

"Briggs and Stratton is continually seeking to improve the industries where our customers work. One way to do this is by providing opportunities for future

innovators and industry leaders," said Jim Cross, marketing manager, Briggs & Stratton Commercial Power. "Baja SAE aligns



perfectly with this goal and is a rewarding way to invest in the next generation."

Baja SAE competitions are structured to simulate real-world engineering projects. Teams of engineering students design,

build, test, promote, race and develop financial support for their vehicles. Each team's goal is to create a prototype single-



seat, all-terrain vehicle that will survive the severe punishment of rough terrain in dynamic events, including acceleration, braking, hill climbing and maneuverability.

"The dependable performance of

Kohler Engines at Demopark 2017

Kohler was at Demopark, which took place in Eisenach, Germany, from June 11-13. The exhibition is one of the most important for the gardening and landscaping sectors.

Kohler Co., which entered the power business in 1920 with the world's first engine-powered electric generator, supplied engines for nearly half of the U.S. lawn and garden tractor market by 1963. In 2007, Kohler Co. acquired Lombardini, thus becoming one main player within the European market as well, thanks to its wide product portfolio.

Alternative fuels R&D are of paramount importance for Kohler, in fact 4 of the company's Command PRO[®] horizontal shaft engine now offer the ability to run on 3 different fuels: gasoline, propane (LP), and natural gas (CNG). At the Kohler booth, visitors could see the latest Command PRO[®] CH395 Tri-fuel, which is characterized with extended running times available when operating with LP or CNG fuels that also provides significant cost savings and cleaner emissions.

A variety of different products were displayed during the show, including the Command PRO[®] CH270 and the Command PRO[®] CH395, showing their 4-stage heavy-



duty cyclonic Quad-Clean[™] Air Filtration System and Command PRO[®] EFI engines.

In addition, the XTX775 from KOHLER[®] XTX Series was there for those looking for the highest performance and the most fully-featured lawn mower engines.

Kohler has manufactured engines for more than 90 years and has continually enhanced its product lineup in an effort

to help make life easier and more profitable for end users around the globe. The company offers a full array of gasoline, diesel and gaseous-fueled engines – up to 134 hp – which are supplied to equipment manufacturers worldwide in the lawn and garden, commercial and industrial, agricultural and construction markets.

Source: Kohler Co.

Vanguard engines makes them an ideal fit for the Baja competition,” said Mr. Cross. “Through our rigorous testing, we’re able to ensure that every engine withstands the most demanding conditions and harsh environments, whether it’s at a jobsite or powering advanced all-terrain vehicles.”

The competitions also incorporate planning and manufacturing tasks associated with the introduction of a new product line to the consumer recreational vehicle market. The main objective is to develop a viable production model to be selected by a fictitious firm. Each year, international engineering, automotive and racing companies attend the highly competitive events to recruit top engineering students.

This year’s Baja SAE Collegiate Design Series competitions were held in Gorman, California; Pittsburg, Kansas; and Peoria, Illinois.

SAE International is a global association of more than 128,000 engineers and related



technical experts in the aerospace, automotive and commercial-vehicle industries. SAE International’s core competencies are lifelong learning and voluntary consensus

standards development.

¹ All power levels are stated as gross horsepower at 3,600 rpm per SAE J1940.

Source: Briggs & Stratton Corporation

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Appointments

Haver & Boecker, a leading equipment manufacturer and solutions provider in aggregates and mining applications, hired James McGillivray as a certified sales manager for Ontario. He brings 10 years of construction sales experience to his new role.

As a certified sales manager, Mr. McGillivray works one-on-one with customers to identify challenges and improve their screening applications. He partners with Haver & Boecker service technicians to develop customized service plans as well as recommend screen media, parts and equipment to help aggregates and mining customers increase efficiency.

Prior to working with Haver & Boecker, James McGillivray provided building products to builders and developers, and has transitioned easily into applying that knowledge to the mining and aggregates industry.

Haver & Boecker Canada, formerly W.S. Tyler, is a leading provider in processing, handling, mixing, packing, filling, palletizing and loading systems. With deep roots and years of experience in these industries, the company effectively meets the needs of customers around the world.

Source: Haver & Boecker Canada



Before joining Continental, both field engineers have gained long-term expertise in the respective businesses. Matthias Engelhardt has been working at Bridgestone Deutschland for around 24 years, most recently as senior manager Commercial Business Germany & OTR DACH. Harm-Hendrik Lange has gained experience in the agricultural business as Test Engineer Hydraulics & Drive Train and Test Engineer Drive Train Functionality at John Deere.

Source: Continental Commercial Specialty Tires

The Supervisory Board of **Wacker Neuson SE** has named the successor to Cem Peksaglam, whose contract expires in August 2017. **Martin Lehner** will take on the role of CEO of Wacker Neuson SE.

Mr. Lehner has been a member of the Executive Board for 10 years, responsible for R&D, procurement, production and quality at Group level. Before the merger between Wacker and Neuson in 2007, Mr. Lehner was already a member of the managing board of Neuson Kramer Baumaschinen AG (from 1990 onwards) and subsequently head of the board.

For the time being, the Executive Board of Wacker Neuson SE will comprise 2 other members: Wilfried Trepels, currently responsible for finance, auditing and IT; and Alexander Greschner is responsible for sales, service, logistics and marketing.

Source: Wacker Neuson SE

Continental Commercial Specialty Tires (CST) is strengthening its team and, in this way, intensifying the close cooperation with the customers in the field: **Matthias Engelhardt** and **Harm-Hendrik Lange** have taken up the newly created positions as field engineers EMEA effective June, 1st. Mr. Engelhardt will be responsible for Earthmoving tire customers. Mr. Lange will be focusing on the Agricultural tire business.

"By entering the ports, construction and mining businesses, we have already taken important steps towards achieving our growth strategy goals and expanding our core business from material handling to a broad variety of segments," says Enno Straten, Head of Commercial Specialty Tires. "Yet, our key focus remains on the customer: We want to provide customized, high-quality products and services in all segments. The needs of customers certainly differ widely. That is why we have decided to invest in headcounts with the knowledge and experience needed in order to provide our customers with best quality services – on site and in the field."



BOMAG Americas, Inc. is pleased to announce and welcome **Shawn Sweet** as vice president Sales & Marketing. Mr. Sweet will be responsible for the leadership of the BOMAG dealer and rental sales teams, marketing, product management and for developing new business opportunities.

Shawn Sweet is a well-known figure in the construction industry with over 27 years of experience. The first 17 years of his career was spent in various capacities at Ingersoll Rand Company where he was instrumental in the growth of their road machinery business, amongst other. Shortly after the acquisition by Volvo of the IR road machinery business, Mr. Sweet spent 7 years as the Business Unit president for Doosan Infracore Portable Power, and, most recently spent the past 3 years as vice president & COO of ASC Construction Equipment, a Volvo dealer.

Shawn Sweet joined the BOMAG team on August 1st and will operate out of our new North American headquarters located in Ridgeway, South Carolina.

Source: BOMAG Americas, Inc.





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Agenda

Minexpo Africa

August 10 - 12, 2017
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PWX Public Works Expo

August 27 - 30, 2017
Orlando, FL USA

Expo-Champs

August 29 - 31, 2017
Saint-Liboire, QC Canada

Asia-Pacific's International Mining Exhibition (AIMEX)

August 29 - 31, 2017
Sydney, Australia

MatExpo 2017

September 6 - 10, 2017
Courtray, Belgium

IFAT Africa

September 12 - 14, 2017
Johannesburg, South Africa

APOM Technical Day

September 14, 2017
Charlesbourg, QC Canada

ICM MEMO 2017 (Maintenance, Engineering and Reliability / Mine Operators Conference)

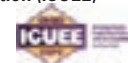
September 24 - 26, 2017
Saskatoon, SK Canada

CanWest Hort Expo 2017

September 27 - 28, 2017
Abbotsford, BC Canada

International Construction & Utility Equipment Exposition (ICUEE)

October 3 - 5, 2017
Louisville, KY USA



AWWA's Annual Conference & Exposition

October 4 - 6, 2017
Las Vegas, NV USA

inter airport Europe 2017

October 10 - 13, 2017
Munich, Germany

Waste & Recycling Expo Canada / Municipal Equipment Expo Canada

October 25 - 26, 2017
Niagara Falls, ON Canada

The Big 5 Dubai - International Building & Construction Show

November 26 - 29, 2017
Dubai, United Arab Emirates

Landscape Ontario's Congress '18

January 9 - 11, 2018
Toronto, ON Canada



InfraTech

January 10 - 12, 2018
Essen, Germany

World of Asphalt 2018

March 6 - 8, 2018
Houston, TX USA



BAUMA CONEXPO AFRICA

March 13 - 16, 2018
Johannesburg, South Africa

INTERMAT Paris

April 23 - 28, 2018
Paris, France



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Montréal, QC Canada



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