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CONSTRUCTION • PUBLIC WORKS • NATURAL RESOURCES

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A Brief Word...

If a Robin is THE sign of spring, then Flagmen are a sure sign of summer.

We all know how good weather affects our industry, but I'm not sure we give enough credit to bad meteorology.

The damage caused by rain, sleet and ice is like fertilizer for a road construction crew. Frost heaves and washouts being the compost heap of construction.

Consider the effect of Portakabin fever on crews, managers and developers, as inclement weather holds up the ability to get out and get working. In a season when prices of equipment and operating costs have leapt upwards, the level of activity in the machinery sector has not noticeably diminished year over year.

I sit here embarrassed but happy that my predictions of a slowing trend seem to have been premature. However, it will only be a postponement of the inevitable.

Make hay as the sun shines because tomorrow it will rain.

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On the cover:

Manitowoc crawler cranes are used in Halifax, Nova Scotia, to demolish and rebuild a wharf at the Halifax Shipyard.

The construction is part of the Halifax Shipyard Modernization Program and will serve the Royal Canadian Navy's combat fleet.

TRELLEBORG ACQUIRES STAKE IN PIPE SEAL COMPANY TO GAIN MARKET-LEADING POSITION IN NORTH AMERICA

Trelleborg has, through its business area Trelleborg Industrial Solutions, signed an agreement to acquire a 51% stake in the North American group, Max Seal, which develops and manufactures polymer-based sealing systems for various types of pipes deployed in water and wastewater systems.

Mikael Fryklund, president of the Trelleborg Industrial Solutions business area, says: "This jointly owned company provides us with a broader customer base, an extensive and competitive product mix, and improved geographic presence. Trelleborg commands a strong position in pipe seal systems in the European market, and we can now offer our customers enhanced global support, which will create new potential for expansion. Max Seal has ex-

tensive experience in the field of pipe seals and is highly regarded, with leading-edge expertise particularly in product development and manufacturing of molded seals, which we will be able to leverage in other parts of our operations."

The acquisition will create a market-leading position in North America, while complementing Trelleborg's existing range and presence in the U.S. It will also provide access to the rapidly growing markets in Latin America.

Bill Hagenberg, of the Trelleborg pipe seals operation, commented: "The strategic joint venture between Trelleborg and Max Seal will give our pipe seals operation important worldwide expansion allowing it to better serve its increasingly global customer base. Jointly, Trelleborg and Max Seal will provide a strong portfolio of products, combining Trelleborg's smaller sized offering with Max Seal's larger pipe diameters. Our Powerlock is a superior product for integrated sealing of PVC pipes especially up to 400 mm.

"We believe our combined expertise in the plastic pipe industry and in designing solutions for challenging structural wall pipe applications will prove of great value to our customers. The joint venture will also give us the chance to optimize our production and manufacture in the Americas for local consumption. This fits perfectly with the Trelleborg strategy of creating market leading positions globally and servicing customers locally."

"The relationship between Trelleborg and Max Seal began in 2011 when the two companies successfully entered the Mexican market together. Customers welcomed the combination of the solid Trelleborg Group and the Max Seal team, with its strong experience in the pipe industry. Trelleborg and Max Seal have an excellent working relationship and we believe by investing in the Max Seal business, we will be an outstanding supplier to pipe producers in the Americas."

Alan Guzowski, Max Seal Group and managing director of the newly created joint venture, says: "We strongly believe that customers in both North and South America will benefit from the cooperation and JV between Max Seal and Trelleborg. It enables us to invest heavily in our joint future and offer high quality products to the Americas."

"Jointly we have a wealth of knowledge



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in pipe sealing, which we will use to the benefit of our customers. Max Seal and our customers will benefit from Trelleborg's involvement and the polymer knowledge it can provide. Since we began our activities in the U.S. in 2008, Max Seal has grown to hold a solid position in the PVC pipe sealing market and has been warmly welcomed by our customers as a reliable, service-orientated partner. With the JV, we can now take our association with Trelleborg to the next level, to service customers in Latin America as well as in the U.S."

Trelleborg Pipe Seals, also known under the Forsheda brand, holds a strong position on the European market and supplies superior integrated and non-integrated sealing solutions for plastic pipes. Max Seal, a relatively young company but with a management that has a strong heritage in the plastic pipe industry, builds on its strong position in the U.S. and Mexican market for PVC pipes seals.

Source: Trelleborg Group

MORBARK CONTINUES EXPANDING DISTRIBUTION NETWORK

Since acquiring the Boxer® Equipment line of compact utility loaders from Mertz Manufacturing at the end of 2012, Morbark continues to aggressively expand its distributor network.

The company recently said the following Boxer Equipment distributors have signed in the past eight months in Canada:

- Cardinal Equipment, with four locations, in Quebec, New Brunswick and Ontario,
- Carriere & Poirier Equipment, Alfred, Ontario,
- York Region Equipment Centre, with two locations in Ontario,
- A.E. Sales has signed manufacturer's representative agreements with Morbark to promote the Boxer line to rental companies throughout Canada.

"We're quickly expanding our Boxer distributor network around the world, adding companies that will give our customers the same high-quality service they know and expect from Morbark," said Mark Rau, Morbark dealer development manager. "The Boxer product line has been a great addition to our equipment portfolio and we're pleased to see so many companies interested in representing Boxer equipment."

Source: Morbark, Inc.

EMPIRE COMMUNITIES NAMED GREEN BUILDER OF THE YEAR BY BILD

Empire Communities has just been named 2013 Green Builder of the Year by the Building Industry and Land Development Association (BILD). The prestigious award recognizes best-in-class builders leading the way in sustainable design and development, and is given every year at the Annual BILD Awards.

The BILD Awards is an exclusive gala held to celebrate the very best of the building and development industry in the greater Toronto area. This year's event took place on Friday April 25th at the Paramount Event Venue, featuring a cocktail reception

and dinner flanked by pre- and post-dinner awards. Selected for its innovative approach to designing and constructing eco-conscious homes and buildings, Empire Communities was honored to take home the award for Green Builder of the Year.

As one of Ontario's top homebuilders, Empire Communities adheres to the Energy Star standard set by the U.S. Environmental Protection Agency (EPA). In accordance with these guidelines, its homes include high performance windows, taped ducts for better air tightness and upgraded insulation. (Empire has also introduced the option for purchasers to employ geothermal heating and cooling

McNeilus Launches Pacific Series Ultra Front Loader

McNeilus Companies, Inc., an Oshkosh Corporation company, displayed a total of 12 refuse vehicles at Waste Expo that ended May 1st in Atlanta, Georgia. Headlined by the new McNeilus® Pacific Series® Ultra Front Loader and a reengineered Zero Radius (ZR) side loader, this is among McNeilus' largest vehicle presentations at Waste Expo.

The Pacific Series Ultra Front Loader showcases several new technologies and enhancements that reduce weight without sacrificing durability. The Ultra body is built to maximize federal bridge payload up to a maximum GVW of 26 000 kg. Other innovative technologies to be featured at Waste Expo include the McNeilus Zero Radius arm, now available with a longer 3,66 m reach.

There were a total of 6 vehicles on display in the McNeilus booth. In addition to the Pacific Ultra Front Loader and the Zero Radius Automated Side Loader, the display showcased a McNeilus Standard Rear Loader configured for export markets. Other vehicles on-hand include a McNeilus AutoReach® Automated Side Loader powered by compressed natural gas, a McNeilus Split-Body Rear Loader, and a Manual/Automated Side Loader.

Other McNeilus vehicles spotlighted in prime locations throughout Waste Expo included 2 McNeilus Standard Rear Loader vehicles in the Freightliner and Kenworth booths. There is a McNeilus Atlantic Series Front Loader® in the Mack booth and another in the Rush Refuse Systems booth. A McNeilus Contender Series Front Loader was featured in additional McNeilus booth space near WasteExpo's reception area.

Finally, a McNeilus Atlantic Series Front Loader was featured at the Environmental Research & Education Foundation (EREF) booth, where it was headlined in a live auction benefitting EREF's scientific research and educational initiatives for waste management practices. McNeilus will participate at the Canadian Waste & Recycling Expo in Toronto, on November 19-21, 2014.

Source: McNeilus Companies, Inc.



in their homes in Niagara at their Imagine Community). The company uses tried-and-true construction methods and leverages its enduring relationships with top-notch suppliers to create the best possible communities for homeowners.

Each Empire Communities home is carefully designed and built to reduce energy bills and promote a healthier living environment, helping residents to save money and enjoy a higher quality of life. The company also employs a Green Team of experts to educate homeowners on the inner workings of their new energy-efficient homes. The just-announced award from BILD marks the culmination of a successful year for Empire Communities, whose longstanding commitment to excel-

lence has solidified its position as a top player within the industry.

"We are extremely grateful to have been selected for this award," said Paul A. Golini Jr., Empire Communities executive vice president and co-founder. "We strive to create the best possible homes to meet our customers' evolving needs, and plan to continue innovating to make a positive environmental impact in the long-run."

Empire Communities has also been recognized as the 2013 Green Builder of the Year at the Award of Excellence from Enerquality, a company that designs and delivers green building programs to the residential construction industry.

"We are very happy to have been recognized by Enerquality with one of

their Awards of Excellence," said Mr. Golini. "Working in concert with private sector companies like Enerquality and government entities like Natural Resources Canada (NrCan) has cultivated very healthy collaborative building environment. Our combined efforts are producing structures that meet or exceed recommended green-building standards, and the people of Canada are reaping the benefits with lower energy costs, and a lower impact on the environment."

Source: Empire Communities

Johnson Crushers International Recognized as "Best of the Best" with Astec Top Honor

Johnson Crushers International, Inc. (KPI-JCI and Astec Mobile Screens) took home the prestigious Astec Industries Chairman's Award in recognition of its outstanding performance in 2014.

The Astec Industries Chairman's Award was established in February 2014 to annually recognize the top-performing individual subsidiary of Astec Industries. The award was given March 3rd during CONEXPO-CON/AGG in Las Vegas, Nevada.

"It was an honor to receive the award on behalf of JCI associates," said Jeff Elliott, president of Johnson Crushers International, one of three manufacturing facilities that make up KPI-JCI and Astec Mobile Screens. "It couldn't have been done without the collective efforts of every associate in our company, and the contributions of the sales and marketing organizations from KPI-JCI and Astec Mobile Screens and Astec Aggregate and Mining Group."

Ben Brock, CEO and president of Astec Industries, said Johnson Crushers International separated itself as "the best of the best" for 2014.

Mr. Elliott credits the strengthening of the manufacturing facility's safety culture as a key element to its success. The three manufacturing facilities that make up KPI-JCI and Astec Mobile Screens also recently achieved an all-time sales record since the company's inception in 1928. "We look forward to a successful 2014," he added.

Source: KPI-JCI & Astec Mobile Screens



From l. to r.: Norm Smith, vice chairman of the board for Astec Industries; Joe Vig, group president of KPI-JCI and Astec Mobile Screens; Jeff Elliott, president of Johnson Crushers International (KPI-JCI and Astec Mobile Screens); and Dr. J. Don Brock, founder and chairman of the board for Astec Industries.

RUUKKI'S HIGH STRENGTH STEEL OFFERING EXPANDS - 960 QL PLATE AVAILABLE

Ruukki's Optim portfolio of high-strength structural steels has been expanded with yet another new grade. Ruukki can now offer 960 QL plate grade to better serve especially the lifting equipment industry. Ruukki's offering for crane manufacturers now includes Optim QC 900 and 960 grades from strip mill in thicknesses from 3-10 mm and 960 QL plate from 8-12 mm. Both plate and strip products fulfil the requirements of the corresponding standards (EN 10149-2 and EN 10025-6+A1). The bendability of the 960 QL grades exceeds the standard – a minimum bending radius of 3.5 x t in all directions is guaranteed.

"Our product portfolio for lifting industry now covers customer demands more extensively. Our exceptionally good surface quality allows customers to have a superior look in their end product," says Josu Piña, vice president, Americas at Ruukki.

Ruukki is a leader in the development of high-strength special steels and has been manufacturing Optim high-strength steels since 2002. Ruukki's manufacturing program includes the thinnest ultra-high-strength structural steels on the market. The benefit of Ruukki's innovative Optim QC grades up to 1100 in thin gauges is their exceptionally good surface quality, flatness and thickness accuracy from one batch to another. This gives crane manufacturers a competitive advantage. Ruukki also provides local technical and application support to help customers to get the most out of using special steels. Prompt and reliable deliveries are guaranteed by an extensive distribution and dealer network across some 30 countries.

Source: Ruukki

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KENTZ ACQUIRES FURTHER CONSTRUCTION CAPABILITY IN CANADA

Kentz, the engineering and construction group, is pleased to announce that it has completed the purchase of the business of Alegro Projects and Fabrication Ltd, an organization offering fabrication and construction services to the industrial sector in Western Canada.

Alegro designs, fabricates, and installs piping, structural steel, and storage tanks, along with a range of other oilfield equipment. The company has been in operation since 2004 and is based in Nisku, Alberta. It has completed a number of significant facilities projects in Alberta, for clients in a

variety of sectors; in particular oil and gas.

Alegro shows a strong fit with Kentz's existing Canadian operations; supporting strategy to increase Kentz's multi-discipline fabrication and construction services in Canada. It adds structural, mechanical and piping (SMP) fabrication, along with site construction capability, to Kentz's existing in-country electrical, instrumentation and telecoms expertise.

Kentz is a global engineering specialist solutions provider, which serves a blue chip client base primarily in the oil and gas, petrochemical and mining and metals sectors.

Kentz has over 14,500 employees in 36

countries. Its three main business lines are; Engineering and Projects, Construction, and Technical Support Services (TSS). It has a proven track record of delivering mechanical, electrical, controls and instrumentation engineering, construction and management services in some of the most remote locations on earth.

Source: Kentz Corporation Limited

ELLISDON FOUNDER AND FORMER PRESIDENT AND CEO INDUCTED INTO THE CANADIAN BUSINESS HALL OF FAME

On Thursday, May 15th, the Canadian Business Hall of Fame honored Don Smith, founder and former president and CEO of EllisDon, as part of its 36th Class of Companion Inductees. This year's class of companions, which also included Peter M. Brown of Canaccord Genuity and Emanuele (Lino) Saputo of Saputo Inc., were formally inducted at the 2014 Gala Dinner and Induction Ceremony at the Metro Toronto Convention Centre.

The Order of the Business Hall of Fame was established in 1979 by Junior Achievement of Canada to recognize business leaders for their personal and professional accomplishments and legacy created for future generations while upholding high standards of leadership, ethics, and citizenship. As said by Keith Publicover, president and CEO of Junior Achievement of Canada, "Our Inductees are leading examples of achievement in business and in life."

Under Don Smith's management, EllisDon grew quickly to become a leader across various sectors, building many prominent schools, malls, office and healthcare buildings, and the world's first retractable rooftop stadium, Rogers Centre (formerly SkyDome). He was an outspoken and influential business leader who maintained a strong commitment to philanthropy and breaking down industry barriers.

"Don was as close to a pure entrepreneur as I have ever seen. He was driven, optimistic and charismatic, and relentlessly honest in everything he did. This determination extended well beyond business to improving the lives of others who were less fortunate than he had been. To be recognized for his efforts would have been a truly momentous occasion for him," said Geoff Smith, president and CEO of EllisDon. "It is this genuineness that enabled him to leave a lasting mark on the

Brevini Power Transmission and Brevini Fluid Power Combine for Bespoke Powertrain Solutions at Hillhead 2014

For many in the quarrying and mining industries, Hillhead is the highlight of the exhibition calendar. Held biannually at the Hillhead Quarry near Buxton, Derbyshire, UK, it gives visitors the chance to meet with the biggest names in the industry and see some of the latest technology in action.

This year Brevini Power Transmission will be exhibiting in partnership

with its sister company, Brevini Fluid Power, to demonstrate how it is able to deliver the most efficient, reliable and complete power solution packages on the market today.

Brevini offers a range of geared power transmission design solutions which deliver robust performance, high reduction ratios and industry leading efficiency levels. Its engineers are experienced in designing solutions for the quarrying and mining industries and can offer specification guidance and installation design advice for almost any application. Partnering with Brevini Fluid Power, it is able to deliver bespoke powertrain solutions which are guaranteed to integrate efficiently and reliably.

On the stand Brevini will be launching its Posired Advanced series of three stage bevel-helical gearboxes for the first time in the UK. Featuring improved thermal capacity and excellent mechanical performance, the conveyor drive reducers offer customers the ability to select smaller sized gearboxes than normally required; which leads to reduced footprints with no negative impact on reliability.

Brevini's other industry leading gearboxes will also be on display, including its range of planetary gearbox designs, which offer up to 98% efficiency per stage, and the unique PIV Posiplan gearbox, which combines the high efficiency, high reduction ratios and low weight of planetary gear stages with the strength, capacity and durability of bevel helical gears.

Source: Brevini UK Ltd.



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industry and build such a unique company that no competitor could ever come close to imitating."

Mr. Smith accepted the honor on behalf of Don who passed away last summer.

Source: EllisDon Corporation

DUFFERIN CONCRETE LAUNCHES THE DUFFERIN U-TRACK MOBILE APPLICATION

Dufferin Concrete, a division of Holcim Canada Inc. recently launched its new mobile truck-tracking application. The app provides real-time information giving Dufferin Concrete's customers an effective tool to manage concrete pours.

"The Dufferin U-Track app works in a simple and effective manner allowing registered customers to review and track

their concrete deliveries using the mobile application on their smartphone or tablet," said Peter Moylan, general manager, Dufferin Concrete. "The app uses GPS technology to tell customers exactly where their delivery is – a critical piece of information when dealing with a perishable material like concrete. Customers can track their delivery from order to pour and see up to seven days of future orders, allowing them to review the order for accuracy, effectively manage their resources and plan their job sites accordingly," he added.

Holcim Canada is committed to continuous innovation and customer excellence. Providing this type of application is not only an example of Holcim and Dufferin's leadership in bringing innovative solutions

to customers but also a testament of the commitment to provide added value to every job and every customer.

The application is currently being released to customers and will be available at www.dufferin-utrack.com for registered customers.

Source: Holcim (Canada) Inc.

DEXTER + CHANEY ANNOUNCES NEW MOBILE APP FOR PAYROLL TIME ENTRY

Dexter + Chaney, providers of Spectrum® Construction Software, has released its new mobile app, Payroll Time Entry. Developed for Android and Apple tablets and smartphones, the app lets supervisors and project managers quickly and easily enter labor and equipment hours directly from the job site.

Users simply select the appropriate job then enter time for all employees and equipment assigned to that job. The app lets users assign and reassign people and equipment as needed, and provides tracking for supervisors to employ when monitoring the labor and equipment costs associated with their jobs.

Payroll Time Entry can be used online or offline. Data is synchronized automatically with Spectrum, Dexter + Chaney's cloud-based construction software. Spectrum applications including payroll, job cost, human resources and equipment management all make use of the data from Payroll Time Entry.

"We are very excited to be able to bring this app to the construction market," said John Chaney, Dexter + Chaney's co-founder and CEO. "We listened to our customers and realized there was a strong need for an effective, secure, easy-to-use tool to help close the data gap between the field and the office and provide more accurate and up-to-date job cost data.

"The best apps out there are designed to do one thing and do it well," said Mr. Chaney. "We designed our Payroll Time Entry app to provide a simple data entry tool that makes sense to supervisors in the field."

He added that the Payroll Time Entry app furthers Dexter + Chaney's commitment to the construction industry to provide easy-to-use solutions that increase the accessibility of information. "Our newest software solutions support the needs of the industry as more computing and data communication becomes mobile," said John Chaney.

Clean Performance in Municipal Services

Bucher Schörling's appearance at IFAT 2014, the trade fair for the environment and waste disposal, has been marked by the clean, environmentally-friendly performance of its compact and large sweepers. Nearly all of the models already comply with the stringent Euro 6 emission standard.



At this year's IFAT, held May 5-9 in Munich, Germany, Bucher Schörling demonstrated its innovation in the design and manufacture of powerful, economic and environmentally-friendly street sweepers.

In addition to much improved emission values, the new Euro 6 machines offer the same sweeping performance as their predecessors. In some cases the suction power and coverage, driving stability and comfort are even better. Notable highlights of Bucher Schörling in Munich were 2 completely redesigned machines – the 2 m³ compact and nimble CityCat 2020 model, which was introduced at the end of last year, and the 4 m³ CityCat 5006 sweeper.

The CityCat 2020 meets the stringent emission standard with a 83 hp diesel engine with AdBlue additive. The wheelbase was extended slightly to hold the additional components for exhaust gas treatment. This meant there was extra space for a larger hopper. As a result, the compact machine offers much more coverage than its predecessor.

The CityCat 5006 model made its world debut at IFAT 2014. Bucher Schörling's new service vehicle in the compact class is powered by a 158 hp, Euro 6 compliant diesel engine with AdBlue additive. The designers achieved increased performance and coverage as well as greater user and driving comfort – through increased suction power, a larger hopper (5.6 m³ gross, 4.3 m³ net) and a newly developed cab. Together with a 880 l water supply, the CityCat 5006 features exceptional characteristic values for a sweeper of this class. Ergonomic work is guaranteed in the spacious, three-seat-capacity cab, by the sweeper functions which can be operated entirely by one hand and a large, clear user interface.

Source: Bucher Schörling



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"That means software that can be used in the office and in the field – anywhere the business of construction takes place."

Source: Dexter + Chaney

CONTITECH'S NEW APP HELPS DESIGN BEARING SYSTEMS

ContiTech is expanding its mobile service applications. The range now also includes the free ViProtect app for measuring vibration and more easily designing flexible bearings. It can be used to analyze diverse industrial systems and even to take

on-site measurements. It thus perfectly complements professional analysis technology for user in the European Union and Switzerland.

"ViProtect will allow us to give our customers advice even faster and more efficiently," says Frank Dahmen, head of sales in the Industry segment at ContiTech Vibration Control. "It recommends products for the suspension of stationary and mobile engines, machines, and almost all devices used in industry."

The app recommends specific bearing

elements and shows their technical data. Users can request more information via a contact form. Data on the mass of the system, the number of bearing points, and the excitation frequency are required for analysis. A particular highlight: "If the excitation frequency is unknown, it can even be calculated with the app before design work gets underway," says Dr. Stefan Narberhaus, head of industrial development at ContiTech Vibration Control. It only takes ten seconds for the mobile application to measure the frequency directly on the device. The smartphone is simply placed on the structure to be measured.

The ContiTech app is available from the Apple App Store free of charge. Users will also find detailed operating instructions there. The app runs on the operating system iOS 7.

Source: ContiTech AG

AFFORDABLE CLOUD-BASED CONSTRUCTION MANAGEMENT SYSTEM FOR SMALL TO MID-SIZED CONTRACTORS

The developers of BuildingBlok™ recently announced the latest release of the affordable, cloud-based construction management platform that has experienced rapid adoption by small to mid-sized contractors. The elegant system revolutionizes the control of construction projects from start to close-out with a comprehensive suite of features that include invitations-to-bid, file manager, daily reports, financial management and numerous other capabilities. Users manage their budgets online, and the system tracks, and automatically administers, the approval process for change orders, pay applications and invoices.

The latest release is still highly affordable, and optional archival storage for a project's electronic records is also available for completed projects whose digital record dramatically reduces the reams of files, scattered notes and other paper trail compiled during a project's duration. BuildingBlok also offers unrivaled data security, with every document and the entire chain of communications backed up twice and stored behind encrypted firewalls.

The system's easy-to-use tools are designed to manage a project efficiently, from a PC or any mobile devices, which consolidates all communicate to a single, consolidated platform. Stakeholders work in real time, sharing documents, photos,

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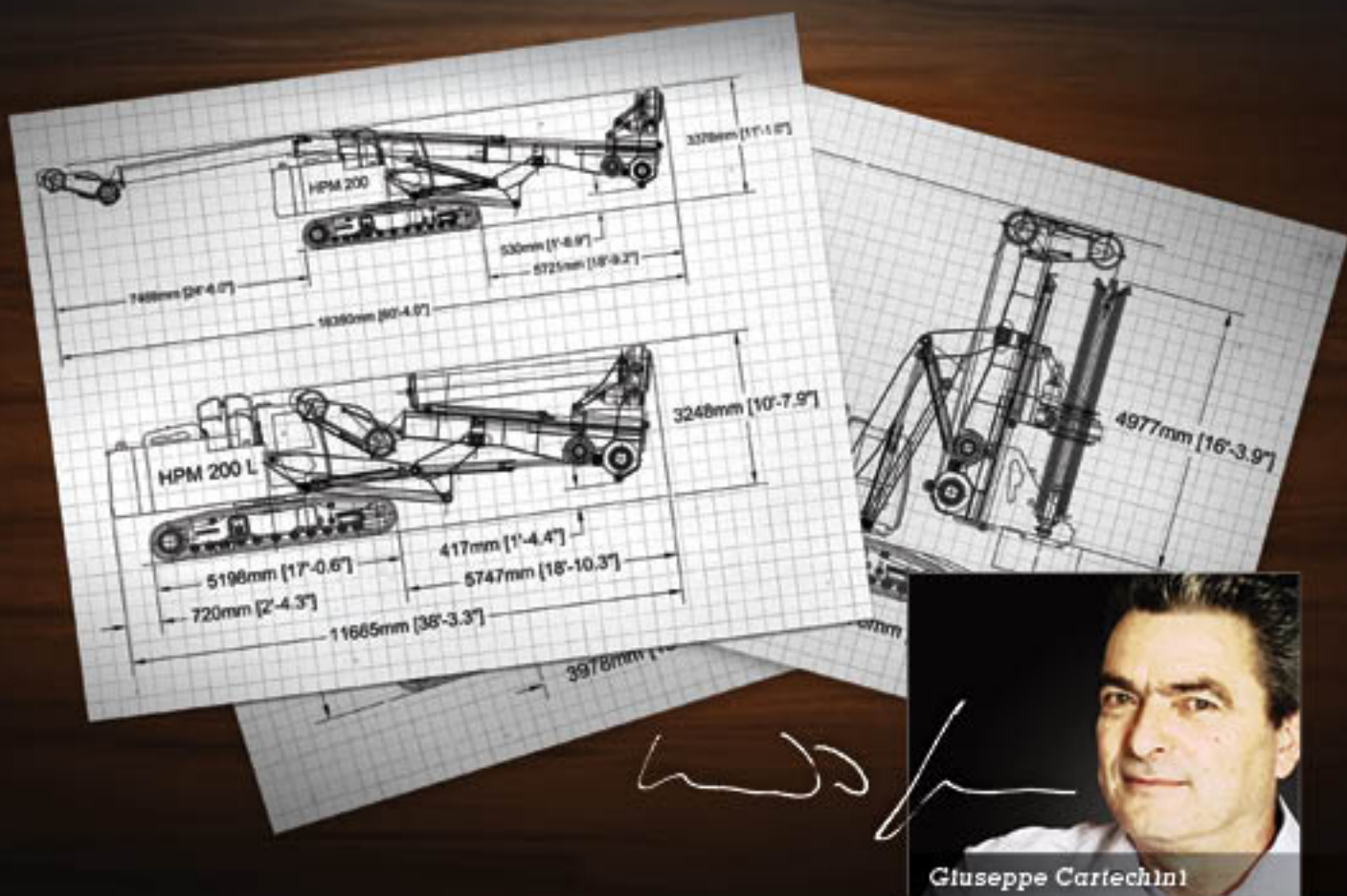
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master and use the platform.

Source: Building Blok LLC

ERIEZ® METALARM METAL DETECTORS PROVIDE A SOLUTION TO MANY METAL PROBLEMS

Eriez' Metalarm series of metal detectors are designed for the protection of downstream equipment from damaging tramp metal. These versatile and reliable metal detectors are ideal for the aggregates, coal, wood, plastics and textile industries. Metalarm detectors have the unique advantage of fitting easily to virtually any conveyor, belt or vibratory.

Metalarm detectors employ pulse induction technology and utilize a single printed circuit board for maximum dependability and easy access for servicing. All Metalarm

units are CE certified and have a high level of immunity to radiated signals, which typically result in false tripping of traditional metal detectors.

Eriez Metalarm units feature an advanced high density polyethylene encased coil system. All Metalarm search coils are fully screened to reduce unwanted emissions. These detectors' sensitivity levels can be set to meet application specific requirements. Plug-in connectors allow simple installation and maintenance of Metalarm units.

Several models are available to solve practically any metal detection problem. All Metalarm metal detectors are custom designed and manufactured to suit customers' requirements. Eriez' Metalarms can also be equipped with accessories such as audible or visual alarms and metal location markers.

Source: Eriez Manufacturing Co.

Hatz 4H50TIC Available as Ready-to-Install "Open Power Unit"

In order to meet the strong customer demand for a ready-to-install plug & play solution of the new water-cooled 74 hp engine, Hatz offers the 4H50TIC now as an "Open Power Unit" (OPU). In addition to the standard scope of delivery of the engine, all parts which are required for the operation of the engine are delivered with the 4H50TIC OPU. These include a radiator and intercooler mounted vibration-decoupled, as well as the appropriate tubing and wiring harness. All parts are installed in the factory during the production process. Thus, the customer only needs to connect tank, pre-filter and pump as well as air filter, battery and control box.

During the development of the OPU, special attention has been paid to the fact that the OPU can be used with a wide range of applications. Therefore, the OPU is already available in lot sizes of one piece. The main application areas of the 4H50TIC OPU are primarily working machines such as hydraulic lifts, hydraulic power units, forestry machinery, drilling rigs and stationary applications such as pumps and generators. The cooling is adapted to a temperature range of up to 46°C. Different radiators or other temperature ranges are possible depending on customer requirements.

The 4H50TIC as OPU meets the strict EPA Tier 4 final emission regulations. Both emission standards are being achieved without the use of a diesel particulate filter (DPF). The after treatment is merely limited to a diesel oxidation catalyst (DOC). Based on legal or customer requirements, for example in urban areas, the power unit, however, can be configured and supplied with a separable diesel particulate filter (DPF).

In addition to the flexible use, the 4H50TIC OPU is also characterized by the known attributes of the basic engine. The extremely light weight of the base engine is reflected, of course, in the weight of the complete package. With 255 kg the complete package weighs just 82 kg more than the base engine. In addition, the box dimensions with 699 mm in width, 935 mm in length and 807 mm in height allow flexible installation even in restricted installation space.

Source: Motorenfabrik Hatz



HEXAGON TO ACQUIRE MINTEC

Hexagon AB recently entered into an agreement to acquire Mintec Inc., a resource modelling, optimisation, mine planning and scheduling software developer for the mining industry.

Headquartered in Tucson, Arizona, Mintec has grown into a global network of mining professionals providing technology, service and support in some of the most complex mining operations around the world. MineSight, the company's modeling and mine planning brand since 1970, is well-known and respected in the industry.

Mining is becoming a more precise practice, and accurate mine planning and scheduling is at the forefront of this change. Hexagon has been active primarily in the operations domain, but the integration of the planning, scheduling and daily production capabilities of Mintec will enable Hexagon to close the loop and control data flow from design and mine planning through extraction and back into life-of-mine planning, providing a comprehensive flow of data across all mining operations.

"The acquisition of planning and scheduling software strengthens our mining solution strategy, providing a platform for comprehensive life-of-mine solutions," said Hexagon president and CEO Ola Rollén. "With the combination of proven technologies from Leica Geosystems, Devex, SAFEmine and now Mintec, in connection with our geospatial product suite

and computer-aided dispatch solutions from Intergraph, we have the tools and technologies to leap ahead of the competition, giving Hexagon a unique position in the market."

The transaction remains subject to customary closing conditions. Closing is expected to be effected no later than June 2014.

Source: Hexagon AB

NEW GASEOUS-FUELED MOBILE GENERATORS TARGETED FOR OIL AND GAS MARKETS

Magnum Power Products introduced a revolutionary line of gaseous-fueled mobile generators at CONEXPO-CON/AGG 2014 in Las Vegas. Ranging from 100 kW through 396 kW, the new line can run directly on well gas in addition to natural gas and propane.

Well gas is traditionally flared off in oil and gas applications. By running directly on this well gas, the Magnum gaseous-fueled generators can save users hundreds of dollars in fuel per day. To account for fluctuations in well gas, the generators provide paralleling capabilities and automatic change over so that power output is maintained. The generators allow a site to maintain power without customer interaction, and are supported by an extensive service network unlike many in the industry.

"The Magnum line of gaseous-fueled generators is purpose built to thrive in well gas applications with maximum uptime," said Ben Froland, product manager for power generation at Magnum. "Additionally, these units are backed by support and expertise in the oil and gas market not found elsewhere in our industry."

Each unit in this new line features a heavy-duty spark-ignited engine designed to handle the impurities that come from running on raw natural gas. The engine management systems automatically adjust to run on propane, natural gas, or well gas. The full-featured controller is easy to use and program in the field for customized installations. And the sound-attenuated enclosure ensures quiet operation.

Source: Magnum Power Products, LLC

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Bolt-On Pump Package for the Mining Market

BBA Pumps introduces a new line of diesel driven bolt-on pump packages to cater to the mining market niche where there is no need for a complete skid and/or canopy.

These units feature the BA or BA-C pump of your choice coupled to a diesel engine, including the control panel, and mounted on a high quality, galvanized sub-frame. The frames can be customized with lifting bales, protection bars etc. should these be required.

These auto prime pumps have a capacity of 100 m³/hr to a maximum of 1,750 m³/hr and a head of up to a maximum of 250 mwc (25 bar).

The units can be bolted onto any object or structure, they offer true bolt-on pumping power. End-users only need to connect a fuel tank and the unit is operational. Using high efficiency pumps and state-of-the-art diesel engines, the units offer maximum performance at minimal cost, fully in-sync with BBA Pumps' philosophy



of "Lowest cost of ownership".

OPTIONAL PUMP WET-ENDS IN DUPLEX STAINLESS STEEL

Duplex stainless steel design enables the pumps to handle advanced dewatering jobs in environments where pH levels are unpredictable and varying – from very

acidic to very alkaline. Furthermore Duplex also allows the pumps to be used in more abrasive applications as it will not "pit" like regular stainless steel. Duplex stainless steel is much more resistant to corrosion and much stronger.

Source: BBA Pumps



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Hyundai's HL780-9A Displayed at CONEXPO



Hyundai Construction Equipment Americas, Inc. displayed its HL780-9A wheel loader at CONEXPO-CON/AGG 2014. This model is part of Hyundai's new 9A series product line, all of which meet Interim Tier 4 standards and is ideal for recycling, quarrying, aggregates and timber yard applications. Operators will experience many upgrades with the HL780-9A including more horsepower and fuel efficiency, improved durability and serviceability as well as enhanced operator comforts.

Source: Hyundai Construction Equipment Americas, Inc.

Perkins Celebrates the Production of its 20 Millionth Engine

On April 28, 2014, Perkins celebrated a major milestone with the production of its 20 millionth engine.

Eighty-one years after the brand was established, the 20 millionth Perkins engine, a 1206 two-stage turbo Tier 4 diesel engine, rolled off the production line at the company's facility in Peterborough, UK.

At a small ceremony, attended by around 70 employees, Perkins president Ramin Younessi said: "Twenty million engines is a significant achievement of which we're all very proud."

"Today, Perkins is one of the world's leading suppliers of off-highway diesel and gas engines in the industry. Our engines are manufactured across four continents and power more than 800 different applications in the construction, power generation, agricultural, material handling, industrial and marine markets."

"Our global manufacturing facilities have all contributed to this 20 million



Perkins president Ramin Younessi, front right, joins representatives from across the business to celebrate the production of the 20 millionth Perkins engine.

milestone for the Perkins brand, to which I extend my sincere thanks to the team, while our global customer base have of course, made their contribution too, by continuing to value their ongoing relationships with us as their power provider, as much as we value our partnerships with them," he continued.

Source: Perkins Engines Co. Ltd.

New Website for Isuzu Engines

Isuzu Motors America, LLC PowerTrain Division (ISZAPT) is pleased to announce a newly refreshed www.isuzuengines.com website effective immediately. This website has a new look and feel to it conducive to the many mobile devices and advanced technologies utilized to view online content today.

Additionally, a new product category – Reman – has been added to the Isuzu product lineup.

Isuzu is a leading technological innovator globally within the diesel engine market. The company's diverse product portfolio encompasses such leading products as industrial diesel engines for on- and off-road use, marine, commercial vehicles, sport utility vehicles, and pickup trucks.

Source: Isuzu Motors America, LLC

A large, detailed image of a diesel engine is on the left. To its right, various engine components like a turbocharger, fuel injectors, and a fuel pump are shown. The background is red with white and yellow text. The main headline is "EVERYTHING FOR YOUR DIESEL ENGINE". Below it, a sub-headline says "Need parts for maintenance or repair on your industrial equipment's engine? Contact-us!". There are five categories of products listed: "Diesel Engines New and Rebuilt", "Engine Parts OEM, Replacement and Reman", "Fuel Injection Pumps and fuel injectors", "Seats & Accessories Seats for All applications", and "Turbos Fixed and Variable geometry". At the bottom, there is a list of locations: "St-Steles - Montreal - Candiac - Quebec - Sherbrooke - Alma - Toronto", a large phone number "1 (855) 233-7770", the website "www.adfdiesel.com", and a logo for "Ad Diesel". At the very bottom, there are logos for various engine brands: Scania, Isuzu, Perkins, Kohler, BergWarner, Hölset, Garrett, Delphi, and others.

MTU to Deliver New Sulfur Tolerance Solution for Tier 4 Engine Technology

As part of its continuous effort to provide the most advanced off-highway diesel engine technology to original equipment manufacturers (OEMs) and customers around the world, Rolls-Royce Power Systems has announced a new high-sulfur fuel capability for its family of MTU industrial engines.

MTU's new Sulfur Tolerance Solution will be available in mid-2014 for Tier 4 interim MTU Series 900, 500 and 460 engines, followed by MTU's complete lineup of Tier 4-final certified Series 1000 – 1500 engines in the future. This new solution will enable OEMs to utilize the latest MTU engine technology in countries where ultra-low sulfur diesel (ULSD) fuel is not available, and will also protect MTU engines from harmful effects of high sulfur fuel.

"The MTU Sulfur Tolerance Solution is designed to provide more than just our proven reliability and durability to OEMs and equipment operators," said Bernd Krueper, vice president of global industrial sales, MTU Friedrichshafen. "This new capability will also simplify design, ordering and installation processes for OEMs and repower customers around the world."

Source: MTU America Inc.



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Decking Jobs Just Got Easier

Hilti continues their decking innovation stream of products with a new unmatched mechanical deck fastener that can replace puddle welds for all bar joist attachments. The new one nail bar joist solution, X-HSN 24, outperforms current bar joist fasteners and provides a consistent fastening even at the most difficult connection points. Designed with a longer and fully knurled shank this new fastener can be used where other methods of fastenings are limited.

To further simplify the portfolio the X-HSN 24 was designed to work optimally with Hilti red cartridges. One fastener and one cartridge for virtually all steel base materials 3 mm (1/8") up to 9.5 mm (3/8") thick.

To expedite visual inspection the X-HSN 24 is collated in red plastic strips allowing it to be quickly and easily identified on the deck surface. Combine this new fastener with our innovative "SLC" sidelap screw portfolio and users will achieve an unmatched deck fastening system.

Source: Hilti, Inc.



Mini-Jarraf Rear Lot Trimmer on Display at ISA

Jarraf Industries will display the Mini-Jarraf Rear Lot Trimmer at the 2014 ISA International Conference & Trade Show in Milwaukee, Wisconsin, August 2-6. The Mini-Jarraf is specifically designed for residential and municipal tree trimming.

A minimal footprint and compact profile allow the Mini-Jarraf to operate in areas where only climbing crews could

go before. The patent pending self-leveling carrier allows it to travel on all types of terrain and eliminates the need for traditional outriggers.

For over 30 years Jarraf Industries has been providing utility, arbor, and line maintenance contractors high quality, innovative equipment needed to safely and efficiently clear land and maintain utility right-of-ways. Jarraf Industries includes the Jarraf All-Terrain Tree Trimmer, Geo-Boy Brush Cutter Tractor, and Mini-Jarraf Rear Lot Trimmer.

Source: Jarraf Industries



Hydraulic Puller for Underground Applications

The ARS709 hydraulic puller from Condux Tesmec is ideal for a wide range of underground pulling applications including power transmission and distribution cable installation. With 180 kN of pulling force, the ARS709 offers industry-leading features like a negative self-acting hydraulic brake, an integrated hydraulic dynamometer, a hydraulic cooling system, advanced user controls and more.

A standard electronic pull and speed monitor and recorder kit is integrated into the control panel, providing users real time data on pulling operations. Bull-wheel grooves on the ARS709 are made from heat-treated steel.

The Condux Tesmec line of hydraulic pullers, tensioners, puller-tensioners and stringing blocks represents the safest and most reliable equipment in the power transmission and distribution industry.

Source: Condux Tesmec, Inc.



IROCK Launches New Website for Easier Use and Mobile Access


IROCK Crushers has launched a new website. The new site, located at www.irockcrushers.com, provides quick access to detailed product information to help customers make informed decisions about crushing and screening equipment. The mobile-friendly site also links customers to the latest technologies and industry news.

Visitors to the website can easily sort product information by the type of crusher, screener or application. Each product page features typical applications and detailed specifications including machine weight, engine type, processing capacities and stockpiling heights. Large photos and videos of equipment in action are featured throughout the site, giving visitors the opportunity to not only read about features and benefits, but view them as well.


In addition to detailed product information and visuals, IROCK is using the new site to keep current and potential customers well informed on industry news and best practices.


News stories and blog posts will be updated regularly with information to help increase profitability in industries such as aggregates, road building, mining, construction and demolition, recycling, landscaping and mining.

Source: IROCK Crushers



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Production Starts at Hyundai Cummins Engine Facility

Cummins Inc. recently announced that engine production is underway at the Hyundai Cummins Engine Co. (HCEC) joint-venture facility located in the city of Daegu, South Korea. The first engines built at HCEC are being supplied to the Hyundai construction equipment facility in Ulsan, Korea, ready for installation in excavators and wheel loaders. The new HCEC facility has the capacity in place to ramp up production to over 50,000 MidRange engines per year, spanning a broad power range from 133 hp to 365 hp.

"Production start-up at the new HCEC facility takes place just 19 months after the initial ground-breaking on site in November 2012, representing a remarkably short completion time to establish a world-class engine manufacturing operation," said Dave Crompton, vice president and general manager – Cummins Engine Business.

"This achievement was made possible by the joint-venture partners – Hyundai Heavy Industries and Cummins – combin-

ing their respective areas of manufacturing expertise. I am very pleased that we are working in close partnership with such a highly respected company as Hyundai, and now have a major engine manufacturing presence in Korea ready to power construction and industrial equipment," added Mr. Crompton.

Rapid implementation of the planning and construction of the HCEC facility was enabled due to the fast-track support provided by the city of Daegu and the Daegu-Gyeongbuk Free Economic Zone (DGFEZ) agency. The HCEC site is located in a sector of the DGFEZ development area intended for high-technology manufacturing.

The MidRange engines manufactured by HCEC include a mechanically controlled 5.9 I and 8.3 I series and an electronically controlled 6.7 I and 8.9 I series. They are configured to provide optimized integra-

tion and enhanced performance in earth-moving equipment and industrial applications. The HCEC-built engines come with a



well-proven pedigree, as they are derived from Cummins B, C and L base engine platforms. Millions of these Cummins engines are operating throughout the world, and have earned an enviable reputation for in-service reliability and durability working in the toughest applications and the most severe duty cycles.

Source: Cummins Inc.

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Ford Has Been Quietly Testing the New F-150 Cargo Box in Real-World Conditions for Years

Ford Motor Company went beyond its labs to test a key part of the all-new Ford F-150. The company embedded 6 prototype pickups – each with an experimental aluminum-alloy cargo box – at some of its fleet customer job sites then quietly went about evaluating the design and engineering of the next-generation pickup in the toughest conditions.

Three longstanding Ford fleet customers, unaware of Ford's experiment, took delivery of prototype F-150s with current steel bodies and all-new, high-strength, aluminum-alloy cargo boxes in 2011. Three years later, these fleet customers and the Ford team who built the prototype trucks are convinced the new 2015 Ford F-150 will be the toughest truck the company has ever made.

"Our customers demand the highest levels of toughness and productivity – so we wanted to test the truck outside, in the harshest conditions and in the hands of real customers – with no limits," said Larry Queener, program manager for the new F-150. "But we did not want these customers to know what was different. So, when we gave them the prototype vehicles, we told them to use the trucks like their other hard-working Ford trucks, and we would be back to follow their progress."



Denis Kansier, F-150 prototype lead engineer, visited the customer sites every three months to check on the integrity of the vehicles and identify possible adjustments to the design of the new Ford F-150.

"This secret testing almost immediately yielded results and lessons we have rolled into the all-new F-150," said Mr. Kansier. "We made the cargo box floor thicker to improve strength, and we made modifications to the tailgate based on lessons we learned through customer usage."



The job sites where the real-world testing was done were chosen for the tough nature of the work these fleet customers do there – from picking up and hauling heavy objects, like 18 kg pintle hitches used for heavy towing, to rolling over unforgiving off-road terrain. The customers were given two prototype vehicles each.

The customers and the sites they worked on include:

Barrick Gold Corporation, Elko, Nevada: The Barrick surveying team drove the vehicles through severe terrain at the company's Bald Mountain and Cortez mines, including travel into mine pits before and after blasting. The prototype F-150 trucks are still being driven between 160 and 500 km a day, and have accumulated more than 240,000 km between them.

Walsh Construction, Holtwood, Pennsylvania and Birmingham, Alabama: Walsh Construction was selected for the severity of use at two of its work sites – first, a hydroelectric dam in Lancaster, Pennsylvania, then a highway interchange construction site in Birmingham, Alabama.

Regional utility company in North Carolina: One F-150 prototype was assigned to a meter reading crew that drives up steep mountain roads; the second truck was assigned to line crews that drive up overgrown paths to replace old poles and electrical lines. The meter readers removed the truck's tailgate to improve visibility – an alteration Ford engineers responded to by incorporating height modifications into the final F-150 design. The trucks at these sites are still being driven an average of 300 km a day.

As the testing of these prototypes

ensued, drivers began to notice differences compared to typical steel truck beds. One of the differences they noticed was a lack of rust.

The fleet customers were informed of the modified, high-strength aluminum-alloy cargo box at the reveal of the all-new F-150 at the North American International Auto Show in January. The prototype trucks are still in use at these three companies.

Ford's extensive testing strategy for the new F-150 includes three phases that will allow engineers to understand how each truck stands up under an array of harsh conditions: "We Test," which takes place in Ford labs, "They Test," at fleet customer sites and "You Test," in which consumers will have an opportunity to put the new truck through its paces.

In addition to testing by these fleet customers, prototype F-150s have been tested in a number of real-world environments. Among them is Davis Dam – a durability route in a remote corner of northeast Arizona – where the F-150 climbed 21 km pulling a maximum trailer load in 49°C heat. In California's Anza-Borrego State Park, an hour east of San Diego, the truck ascended a mountain of sand and rock with a 30° grade, sometimes reaching an altitude of 1,800 m, 250 times over 5 days – all without fail.

Before the first 2015 F-150 rolls off the assembly line, the new truck will have been subjected to 16 million km of combined real-world and simulated durability testing.

Source: Ford Motor Company



Kenworth T370s Help Protect Township of South Frontenac

South Frontenac, Ontario, is a township that consists of 1,140 km² and 18,000 full-time residents, ballooning to 30,000 in the summer months. Smack dab in the middle is Frontenac Provincial Park – an area dotted with lakes and canoe routes through 22 of those lakes. Hiking, fishing, wildlife viewing, and camping abound. For the thousands of visitors and those who have summer cottages joining the full-timers in South Frontenac, it is paradise.

"It really is a special place," said Rick Chesebrough, who serves as chief for the South Frontenac Fire Department. "It's nature at its best and a throwback in time. People come here to relax and get back to nature."

For Chief Chesebrough and his crew of 150 volunteer firefighters, it is also a place they proudly protect with a fleet of predominately Kenworth medium duty trucks configured as pumpers, tankers and rescue vehicles.

While nature and time may seem to

stand still, the fire department is anything but. It is progressive and leading edge. So much so that other departments have tended to follow its lead in equipment purchases and practices.

"That tells us we're doing things right," said Chief Chesebrough, who became the department's lone paid employee back in 2003. "It's very gratifying to see other departments emulate what we've accomplished here."

Operating 9 fire halls with 5 rescue vehicles, 8 tankers and 9 pumpers in total, the department has upgraded its equipment and received Superior Water Shuttle accreditation in 2006 by the Fire Underwriter's Survey.

"We're running mostly Kenworth

medium duty trucks – the T370 as our latest purchases," Rick Chesebrough said. "By upgrading and having the right pieces of equipment, we're able to continuously



pump 2,650 l/min of water to combat structural fires. That's equivalent to using fire hydrants, but we do it with pumpers and tankers. We can draw from lakes and feed the pumpers, or send the tankers out



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and return with water. By being able to do this, and being certified, we're saving homeowners up to 40% on their homeowners insurance. That's huge. To pay for all this, we instituted a \$35 surcharge for each \$150,000 in home value, but that cost is minimal compared to their savings."

The volunteer fire department stays busy, according to Chief Chesebrough. "We'll get about 500 calls a year on average with about a third of those for medical emergencies from broken legs to cardiac arrests," he said. "We'll also have 3 or 4 ice water rescues per season, plus we'll respond to wildfires that are in our area. Fortunately, wildfires are down significantly since we implemented burning restrictions in the area."

As for equipment, the 5 fire rescue vehicles include 2 Kenworth T370s with another recently purchased and awaiting a custom body. The single-axle rescue vehicles are built with 5.5 m van bodies with rear walk-in. Heavy hydraulics power a "jaws of life" life-saving cutter, and tower lighting extends 3 m above the rescue unit. "Those are our go-to vehicles for accident response and any water rescues," said Chief Chesebrough.

Each unit in the tanker fleet, which features 3 Kenworth tandem-axle T370s, carries 9,500 l of water. They are designed for multi-use – being a water supply for the pumpers, as well as a self-contained fire apparatus, shooting water at a rate of 3,180 l/min – emptying their tanks in a mere 2.5 minutes. The latest Kenworth T370, configured as a tanker, is powered with a PACCAR PX-9 engine rated at 380 hp, while the new T370 rescue chassis features the PACCAR PX-9 engine rated at 350 hp. Each Kenworth is driven through Allison automatic transmissions.

Rounding out the department's equipment are the 9 pumpers, including 2 Kenworth single-axle T300s with 3,000 l tanks, coupled with 113 l foam tanks for fire suppression.

Rick Chesebrough's prior experience working for the ministry of transportation and as a truck driver strongly influenced



Rick Chesebrough, Chief of the South Frontenac Fire Department in Ontario, is shown with one of the department's Kenworth T370s.

his equipment choices as the township's fire chief. "I know the importance of being able to spec a truck for the specific job at hand," he said. "My experience taught me the importance of reliability, durability and workmanship in a vehicle. Since we keep our equipment for 25 years and the investment in the chassis and body can range from \$350,000 on up, it's critical to make the right choice and have the right specs."

"We've found that the Kenworths we've run to be just fantastic," continued Chief Chesebrough. "They have great visibility and a sharp turning radius and a cab that can be configured for the work we do. When we worked with our Kenworth dealer, we went into great detail on what we needed. We didn't have to compromise - Kenworth understands the needs of fire chiefs and how the equipment will be used. That goes from building the truck all the way to dealer support. Kenworth Ontario - Kingston supports us 24 hours a day. We never have to worry about downtime – it's been an exceptional relationship we've forged with our dealer."

Since the fire trucks don't put on many miles, they're maintained on a time schedule. And they're cleaned after every emergency use. "You'd be hard pressed to tell what year any of our trucks are," said Chief Chesebrough. "They look great, but better than that, they perform great. It's why we showcase our Kenworths at the annual Ontario Fire Chiefs Conference.

Other chiefs walk around those trucks and walk away understanding what we've come to appreciate over the years. That's a gratifying feeling."

DEDICATION PERSONIFIED

What does it take to become a volunteer fireman? How about 4 months of training entailing weekly 3-hour sessions, coupled with every other weekend training regimens.

"It's intense and the obligations and sacrifices our volunteers make is something to behold," said Chief Chesebrough. "Before any volunteer can respond to a call, they need to know proper procedures and life-saving techniques. We never know what can be encountered up here, from structural and wildfires to water rescues over ice, and severe auto accidents. It takes a special individual to serve. Residents here have put their trust in our volunteers, and they don't disappoint – their dedication to the township is unbelievable."

Source: Kenworth Truck Company

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Manitowoc Crawlers Help Rebuild Halifax Shipyard

A fleet of Manitowoc crawler cranes is being put to the test in Halifax, Nova Scotia, demolishing and rebuilding a wharf at the Halifax Shipyard. The construction is part of the Halifax Shipyard Modernization Program and will serve the Royal Canadian Navy's combat fleet.

On the site are two 109 t Manitowoc 12000 crawler cranes, rigged with 36.6 m and 42.7 m booms; a 208 t Manitowoc 888 crawler crane, set up with a 42.7 m boom; and a 272 t Manitowoc 2250 crawler crane, rigged with 48.8 m of boom. They are being operated by Irving Equipment Limited from Saint John, New Brunswick.

The Manitowoc 2250 is operating a Berminghammer Drill, which is used to drill overburden that consists of marine sediment, small boulders, and rock sockets, to bore through steel debris, and to position temporary falsework frames. The two Manitowoc 12000s are operating as support cranes on the site. The new wharf will measure about 260 m in length and

20 m in height.

While the cranes work, the shipyard remains in operation, meaning demolition of the buildings and foundations, as well as construction of the wharf, are occurring within the fully operational port. The project began in May of 2013 and wrapped up in January 2014.

Irving owns several Manitowoc cranes in its fleet. It chose this trio of cranes for the Halifax Shipyard project thanks to their long reach and high capacity capabilities.

Andrew Folkins, manager of the pile-driving division at Irving, said that choosing Manitowoc cranes was essential to getting the project done right.

"Having the proper equipment to do the job in an efficient and effective manner is



one of the key's to Irving Equipment's success," he said. "That's along with matching experience and ability to the project's requirements."

Irving purchased the cranes from Shawmut Equipment, which has more than 50 years of experience in the crane industry.

Source: The Manitowoc Company, Inc.

New Goodyear G731 MSA and G751 MSA Tires Target Mixed-Service Applications

Construction, dump, cement mixers and other mixed-service fleets will soon have access to two new Goodyear commercial truck tires that will help their trucks travel across challenging surfaces.

The new Goodyear G731 MSA and G751 MSA mixed-service tires will be available this summer. Fleets will be able to buy several sizes of these tires with Goodyear's exclusive DuraSeal Technology.

Goodyear DuraSeal Technology is a gel-like rubber compound that is built into the tire's casing at the time of manufacture and instantly seals nail-hole punctures of up to ¼-inch in diameter in the repairable area of a tire's tread.

"Goodyear DuraSeal Technology helps keep trucks up and running, which helps prevent expensive downtime, lowering fleets' overall operating costs," said Brian Buckham, marketing manager, Goodyear Commercial Tire Systems. "Goodyear is the only tire company that offers this unique, money-saving technology."

Both the G731 MSA and G751 MSA also

contain other features to help fleets lower their operating costs.

The G731 MSA is designed for 20% on-road and 80% off-road service applications. It will be offered in the following sizes: 11R22.5 (with DuraSeal Technology); 12R22.5; 11R22.5; 11R24.5; 275/70R22.5; and 255/70R22.5.

The G751 MSA is designed for 80% on-road and 20% off-road service applications. It will be available in the following sizes: 11R22.5 (with DuraSeal Technology); 315/80R22.5 (with DuraSeal Technology); 12R22.5; 12R24.5; 11R22.5; 11R24.5; and 315/80R22.5.

"These premium tires are big on tread life, toughness and fuel economy, and Goodyear's exclusive, self-sealing Du-

raSeal Technology will help keep them up and running," said Mr. Buckham. "We're confident that the G731 MSA and G751



MSA will become the tires of choice for mixed-service fleet managers who want to lower their overall operating costs."

Source: Goodyear Commercial Tire Systems

Terex® Crossover 6000 Truck-Mounted Crane Provides Versatility in Canadian Oil Fields

When purchasing lifting equipment for use in the western Canadian oil and natural gas industry, there are many factors to consider besides picking distance and capacity alone. Among the most critical factors include the increasingly stringent safety requirements on work sites and the need to adhere to strict road regulations when travelling on Canadian highways. Decca Industries Ltd. of Clairmont, Alberta, is no stranger to these considerations and when Dynamite Oilfield & Picker Service of Lloydminster, approached them for a high-capacity crane to work in the oilfields, Decca's answer was a truck-mounted model that has repeatedly proven effective in the field, the Terex® Crossover 6000 truck mounted crane.

"We have sold Crossover 6000 units before, and have heard nothing but positive feedback," explains Mike Edgar, CEO of Decca Industries. "It's easy to see why, the Terex truck-mounted crane is incredibly smooth and stable from the operator's seat. It has that 'big crane feel' that operators love, while still being able to travel at full highway speeds."

Dynamite's Terex Crossover 6000 crane arrived at Clairmont ready to work, mounted on a Western Star chassis with twin steering axles and a tri-drive axle configuration. However, in order to carry the additional 5443 kg of removable counterweight, local restrictions state that an additional steering axle was required. To achieve this, Decca contracted Simard Suspensions Inc. in Baie-Saint-Paul, Quebec to tighten the steering axle spacing and install an additional axle. The expanded footprint not only allowed for the counterweights to be legally carried on the sub-frame, but also increased capacity enough to allow the installation of an oilfield style, heavy-duty pipe bumper. Furthermore, the entire crane structure was moved forward, lessening the load carried by the rear axles, and providing more room for Decca to tackle the next goal for their customer, towing a trailer.

In order to pull a trailer behind the Crossover 6000 crane, a high-rise fifth wheel pedestal was designed, as well as a custom trailer to match it. The pedestal was designed to mate with the crane



outriggers while in transport for additional strength. The pedestal itself was then able to remain hollow and be utilized as a sizable storage cabinet. The tri-axle trailer was specifically designed for Dynamite's Crossover truck crane, complete with two drop axles and a 8.5 m long deck, bringing the entire coupled unit just under the maximum legal length for travelling on western Canadian highways. With an aluminum top deck to reduce weight, and the ability to store counterweights on the Crossover crane's sub-frame, the payload and deck space of the trailer is well suited for the impressive picking capacity of the mighty Crossover 6000 crane.

In the end, Dynamite Picker Service took delivery of a single unit that can handle jobs that would otherwise require up to three units. Under normal circumstances,

a highway tractor or bed truck would be required to carry the jib and/or counterweights to the work site, and with many oil companies restricting cranes to only 80% of their indicated picking capacity, the Terex Crossover 6000 crane is able to lift loads that would otherwise require two cranes. Finally, with the addition of the trailer towing capability, Dynamite no longer needs additional transport vehicles to haul loads to and from work sites.

Decca Industries is excited to begin an identical rig-up utilizing the recently launched Crossover 8000 model crane in a joint effort with Terex to continue providing customers with powerful and versatile equipment that can complete jobs safely and efficiently.

Source: Terex Corporation

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WEG Helps to Generate Hydro-Electricity for Windsor Castle

In the English county of Berkshire, a project delivered by Southeast Power Engineering has seen a mini power station being installed on the River Thames at Romney weir to produce electricity sustainably using environmentally-friendly water driven Archimedes screw generators. The completed design features two WEG W22 Premium Efficiency IE3 generators being driven by the screws via a gearbox to produce electricity which now powers Windsor Castle.

The scheme is the brainchild of David Dechambeau, managing director of Southeast Power Engineering, who has overseen every step of the design and installation process. The power station has now been generating electricity since July 2013 and is in the final stages of completing testing and commissioning.

The power station consists of two Archimedes screws manufactured by



is used to start the screws turning and then as the speed increases, so the motor function is changed over to a generator and the rotation of the screw is maintained by the water which in turn maintains the generator speed to produce the electricity.

Efficiency was a key target for this application as the installation has a fixed

ROI period, at 96% efficiency the WEG motor/generators represented one of the best investments Southeast Power could make in the power transmission design to ensure their six year ROI target was met. The installation has a minimum guaranteed design life of 50 years and Southeast Power has

stepping stone for a number of similar projects. It is essential that we install the most efficient and ecologically sound power plant as possible. The work we are completing now will help to deliver future projects using similar technology as demand for sustainable power is understandably going to increase," adds Mr. Dechambeau.

The Windsor hydroelectric project represents an investment of over £1.7 million (\$3.1 million) coming from a consortium of private funds, but success was not a foregone conclusion as it has taken several years for a scheme to get off the ground after previous attempts failed due to problems with alternative technology and funding.

The royal household has agreed to buy the power generated by the Romney Weir generators, guaranteeing an income for the project. The Queen already has another hydroelectric plant in Balmoral and the Prince of Wales employs solar panels and wood chip boilers on his estate, the Archimedes screws however are the largest project so far and fit-in with a policy by the Royal Household to both cut bills and reduce its carbon footprint.

Estimates are that the hydro-electric generation capacity is equivalent to 450 t/y of coal, effectively reducing carbon dioxide emissions by more than 1,000 t/y. The ecological side of the project goes further than just sustainable power generation though, with a new "fish path" being built alongside the weir to allow fish and eels to migrate up the river for the first time in centuries.

Source: WEG Electric Motors (UK) Ltd



Landustrie, each weighing 40 t, connected to the WEG W22 IE3 class premium efficiency generators, which are now delivering 320kW/h at peak flow, exceeding the original design criteria.

The WEG W22 IE3 generators were designed and manufactured in Portugal at WEG's dedicated European manufacturing site; they are rated at 185 kW and produce electricity at 400 V, which is then fed via a 500 kVA transformer to an underground line that connects to Windsor Castle as well as the National Grid.

The W22 units are specials in that they are generators based on a W22 motor, the reason being that in this application; when the screws need to be re-started, electricity

a 40 year tenancy of the site, so reliability and longevity were also very important considerations – if the screws stop turning then there is a direct consequence in terms of revenue.

David Dechambeau comments: "In order to make this project sustainable, it was essential that we selected the most efficient equipment for the construction of this power station. The design called for a reliable generator with superior efficiency ratings and on balance the WEG component definitely fitted the criteria and it was straightforward to install."

"This is a very important project for us, not only because we are supplying the Royal Household, but also as an initial





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Appointments

Molok North America Ltd. is pleased to welcome **Tim Corcoran** to the Molok® family as business development manager for the Greater Toronto Area (GTA).

In this position, he will focus on building relationships with key stakeholders and partners, expanding the presence of the Molok® Deep Collection™ system throughout the GTA.

Mr. Corcoran joins Molok North America Ltd. with over 15 years of senior management experience in business development and sales management roles, where he provided leadership to sales teams across Canada.

Source: Molok North America Ltd.



Superior Industries, Inc. has appointed **Bill Humphrey** as territory sales manager throughout America's Great Lakes and Ohio River Valley. In his new role, Mr. Humphrey will work closely with Superior's dealers in the region to bring innovative conveying equipment to bulk material producers in Illinois, Indiana, Kentucky, Michigan, Ohio and Tennessee.

Most recently, Bill Humphrey was with Aggregates Manufacturing International (AMI) where his roles included sales, design and production responsibilities. Recognizable companies like Process Machinery, Inc. (PMI), Nordberg Manufacturing and J.W. Jones Company have also employed Mr. Humphrey.

Source: Superior Industries, Inc.

Registration now open for AWWA's Water Infrastructure Conference & Exposition

The American Water Works Association has announced that registration is now open for its first Water Infrastructure Conference & Exposition to take place in Atlanta Oct. 26 - 29, 2014.

The conference and exposition will focus on water and wastewater infrastructure rehabilitation or replacement needs. It will also concentrate on factors that contribute to increasing demands on water and wastewater utilities such as shifting population patterns and man-made and natural threats.

Conference topics will be separated into four relevant tracks for employees of utilities and consulting firms to concentrate on essential water infrastructure planning, reinvestment strategies, critical infrastructure protection through emergency preparedness planning and the application of heightened physical security and cybersecurity measures.

Conference attendees will also have the opportunity to register for three Sunday workshops covering asset management and SCADA and distribution systems. A complimentary workshop on disaster management will also be presented by FEMA and TEEX.

Full-conference attendee registration includes two lunches, one networking reception, technical sessions and access to the exhibit hall with education sessions on the show floor. To learn more and to register for this event, visit the conference home page.

Source: American Water Works Association

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Amsterdam, the Netherlands

Hillhead 2014
June 24 - 26, 2014
Buxton, UK

2014 International Roof Coatings Conference (IRCC)
July 14 - 17, 2014
Baltimore, MD USA

ISA International Conference & Trade Show
August 2 - 6, 2014
Milwaukee, WI USA

APWA 2014 International Public Works Congress & Exposition
August 17 - 20, 2014
Toronto, ON Canada

APOM Technical Day
September 5, 2014
Asbestos, QC Canada

Expomina 2014
September 10 - 12, 2014
Lima, Peru

Pacific Heavy Equipment Show / TRUXPO 2014
September 19 - 20, 2014
Abbotsford, BC Canada

International Mining Conference & Exposition (IMEX2014)
September 23 - 25, 2014
Las Vegas, NV USA

INTERROUTE & VILLE
October 7 - 9, 2014
Lyon, France

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WaterSmart Innovations Conference and Exposition
October 8 - 10, 2014
Las Vegas, NV USA

Water Infrastructure Conference & Exposition
October 26 - 29, 2014
Atlanta, GA USA

Expo-FIHQQ 2014
October 29 - 31, 2014
Montreal, QC Canada

**Canadian Waste & Recycling Expo
Exposition canadienne du déchet et du recyclage**
November 19 - 20, 2014
Toronto, ON Canada

**canadian
waste recycling expo**

bauma China
November 25 - 28, 2014
Shanghai, China

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China 2014**

World of Concrete 2015
February 3 - 6; Seminars 2 - 6, 2015
Las Vegas, NV USA

Work Truck Show
March 4 - 6, 2015
Indianapolis, IN USA

National Heavy Equipment Show
March 5 - 6, 2015
Toronto, ON Canada

World of Asphalt & AGG1
March 17 - 19, 2015
Baltimore, MD USA

inter airport South East Asia - Singapore
March 18 - 20, 2015
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April 20 - 25, 2015
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