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May 2015**

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A Brief Word...

Well, the lucky few who got to enjoy Paris in Springtime will have had a preview of the news and innovations we'll bring you in this issue.

For the rest of us, who suffered through a late wintery snowstorm there is some news from windy Wisconsin and more.

We have travelled far and wide to bring you the latest information on technologies and techniques to help you get your job done or to take on a new challenge to stay competitive.

It is no less than what our loyal readers expect from Canada's leading industry publication. Whether you be at the Arctic's edge or the salty Atlantic shore InfraStructures brings the equipment world to your fingertips.

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On the cover: The Ravo 5 street sweeper is a versatile performer.

The Ravo 5 offers all the versatility of a compact sweeper with the capability of a truck-mounted sweeper while achieving up to 50% better fuel economy.

W.S. TYLER ANNOUNCES NAME CHANGE TO HAVER & BOECKER

W.S. Tyler, the premium screening solutions company in the mining, aggregate and industrial mineral industries, is expanding to offer the full line of technology provided by its parent company, Haver & Boecker. To better align the company's name with its new strategy and product offerings, the W.S. Tyler Screening Group will now be known as Haver & Boecker.

"Haver & Boecker has a long, established history of servicing not only the mining, aggregate and industrial minerals industries, but also the cement, chemical, building materials and food industries worldwide," said Karen Thompson, president of W.S. Tyler. "In addition to our screening, washing and pelletizing equipment, the new portfolio also will include packing, liquid filling, palletizing, loading and storage technology. The move to the

Haver & Boecker name represents growth here in North America, and most importantly more value to our customers."

The company's team of screening experts will continue to focus on W.S. Tyler customers and the core screening technology and expertise that is valued by their customers today, while new teams are being added to support the new technologies.

"As we grow our company and add new technologies and industries, our top priority is to ensure our W.S. Tyler customers are the ones who benefit the most; they are the reason we go to work every day, and their trust has allowed us to grow to offer bigger benefits to their operations," said Ms. Thompson.

The complete line of Haver & Boecker products and services includes:

W.S. Tyler is synonymous in North America with premium screening, washing and pelletizing equipment, including the Hydro-Clean and F-Class.

Haver & Boecker packing technology is focused on stationary and rotating feeding solutions for valve- and form-fill-seal bags. Behn + Bates is highly recognized for its bag packaging systems that are designed for food and animal feed filling applications.

Feige Filling Technology produces turnkey systems for filling liquid and pasty products into drums, pails, cans and IBCs (intermediate bulk containers).

IBAU Hamburg specializes in bulk loading, material handling and storage equipment for many land and marine applications.

NEWTEC Bag Palletizing creates innovative solutions for palletizing bagged products.

"When you buy Haver & Boecker technology anywhere in the world, you can be assured that you're getting the best combination of products, services and expertise, regardless of your industry," added Karen Thompson.

The W.S. Tyler Industrial Group in Mentor, Ohio, which is the pioneer for laboratory equipment, such as testing sieves and shakers, and considered to be the specialist for industrial applications of woven wire, will not be affected by this name change.

Source: Haver & Boecker Canada



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DEEP FOUNDATION SERVICE AND SAVINGS - ALL IN ONE LOCATION

International Construction Equipment, Inc. (ICE®), one of the largest global manufacturers of pile driving and drilling equipment since 1974, just announced its partnership with Selix Equipment, Inc., based in Ottawa, Ontario. They have signed a dealer agreement between the parties enabling Selix to now be the one-stop foundation location for all of Quebec, Ontario and Eastern Canada by offering Pile Drilling and Drilling equipment to its customers.

Selix Equipment, established in 2011, has quickly become the premier dealer for drilling equipment on the eastern side of Canada including Quebec and Ontario. "Whatever you do to put a hole in the ground... that's our business," says Mario Roussel, president of Selix Equipment. "Now, we have the ability to fulfill all our clients' deep foundation needs with the addition of ICE® equipment."

The company specializes in the supply and service of drilling equipment, equipment parts and drilling consumables and now the rental, sales and service of the full ICE® product lines. The scope of the business has been small and large rock drills for quarries and construction, and various sizes of multi-use drills for ground consolidation, environmental sampling, tie backs, micro piles, jet grouting and geothermal and hydraulic piling rigs from 35 to 90 t.

"We are just expanding into vibratory hammers from the world's largest U.S.-made 200C ICE® Vibratory Hammer to excavator-mounted vibratory hammers and accessories. Plus, we have full access to the entire line of ICE® equipment," adds Mr. Roussel. "The cost effectiveness for our clients being able to come to Selix, whom they know and trust, will enable bottom line savings over the duration of their job."

Selix Equipment is a Canada-wide distributor for Mc Drill Technology of Italy and Sandvik Construction (Ontario only) a division of Sandvik, an international Swedish company in the high-technology engineering sector and a world-leader in tooling, stainless steel alloys and materials technology, mining and construction. Selix Equipment also has strategic supply arrangements with Carandina, S.l.r. of Italy for the supply of foundation drilling tools,

Bretex (a Sandvik company) for hydraulic rock breakers and now ICE® vibratory hammers. ICE® engineers, manufactures, delivers and rents high quality vibratory hammers and power packs for all deep foundation piling work.

ICE®, a 42-year established manufacturer, choose to do business with Selix Equipment because: "The Selix team does not just sell and service the market, they specialize and excel with a superior service

team to keep clients from having expensive downtime on the jobsite." says Christian Cunningham, COO & owner of ICE®, Inc.


Source: ICE- International Construction Equipment, Inc.

PRO FLEET CARE WELCOMES NEW FRANCHISEE IN WATERLOO/PERTH

Pro Fleet Care, a leader in the mobile fleet rust control industry, is proud to welcome Isaac Bergen as the organiza-

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tion's newest franchisee for the counties of Waterloo/Perth Ontario.

Prior to joining the Pro Fleet Care family, Mr. Bergen ran his own vegetable and crop farming operation in Mexico, which he purchased and developed over the last 13 years. Last year he made the difficult decision to leave Mexico, the land he had been born and raised, to come to Canada.

Isaac Bergen was quickly employed due to his hard work ethic, but he longed for a

business of his own. On a chance meeting with Bob Lawrie, the founder of Pro Fleet Care, he learned about the mobile rust control business. "I like my employer. He is really kind to me and my family, but I knew that I needed to have a business of my own. I wanted to get back into farming, but to establish a farming operation in Ontario would be too costly," says Mr. Bergen. "When I met Bob and he told me about his franchise business, I got excited. I knew

that I had the skill set and desire to serve clients. I knew this was for me."

"Businesses succeed and fail based on their ability to provide relevant services and products to the market place. At Pro Fleet Care, we have been blessed with a business that is in great demand, because we understand the importance of having the best products, process and most importantly the best service providers," explains Greg Lawrie, president of Pro Fleet Care. "So it goes without saying I am truly excited to have Isaac join the Pro Fleet Care family. In addition to his farming background, Isaac has extensive experience in the manufacturing of farm implements as well vehicle repair. Having worked with him in initial sales and training so far, I am convinced that he will be an effective business owner as he is motivated and has a strong sense of customer service. Pro Fleet Care prides itself in its customer focus and professional work ethic. I am confident that Isaac will be a great success, adding to the continued growth of Pro Fleet Care," Mr. Lawrie further affirms. It has been 30 years since the Pro Fleet Care story began and Pro Fleet Care has now developed a sound franchise organization that provides its customers with an effective customer-focused distribution system. Pro Fleet Care is pleased to continue to expand this system nationwide.

Source: Pro Fleet Care

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NEW HARBER COATINGS FACILITY QUADRUPLES PRODUCTIVITY AND OFFERS COST SAVINGS TO OIL AND GAS COMPANIES

Harber Coatings Inc. officially opened its new facility on May 1, 2015. The exclusive manufacturer of InnoGUARD™ Flakeless Electroless Nickel Coating (ENC) is focused on significantly reducing replacement costs of parts, tools, and downtime in the oilfield for customers. Their proprietary, high phosphorous-nickel coating protects raw metal parts and tools from corrosion, abrasion and salvages worn or mismachined parts.

Replacement and repair of damaged equipment is the largest maintenance requirement in the oil and gas industry. Ken Wang, president and CEO, explains: "In this economy, customers are looking for the best long-term value to protect their assets. Our InnoGUARD™ ENC extends the life of critical metal items by over 20 times,

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pile up
to 50'

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even when parts and tools are mechanically impacted, exposed to sour service or placed in highly corrosive environments. We are the only company in North America to offer a lifetime no flaking or peeling warranty on a coating."

The new facility occupies over 1850 m² of production area in the Calgary Foothills Industrial Park, in Alberta. This site boasts larger processing equipment and double the previous location's production area. "With larger equipment, we will quadruple productivity and meet rising demands of customers requiring larger parts and tools to be coated. Working more efficiently also enables us to reduce pricing by up to 15%. This is a huge benefit for companies now dealing with tight budgets," states Mr. Wang. Another component to Ken Wang's expansion plan is to use the Calgary facility as a staff training center and open new locations globally, over the next 5 years.

Source: Harber Coatings Inc.

INTER AIRPORT EUROPE 2015 ADDS A FURTHER EXHIBITION HALL

Show organizers, Mack Brooks Exhibitions, has expanded the exhibition space

at inter airport Europe 2015 by adding a 3rd hall. The 20th anniversary edition of the International Exhibition for Airport Equipment, Technology, Design & Services, will be held October 6 - 9, 2015, at the Munich Trade Fair Centre, Germany.

"More than half a year ahead of the show the available stand space in halls B5 and B6 had already been booked or reserved, while the demand for stand space continues to be very strong. With the directly neighboring hall B4 we are now able to offer additional stand space in the indoor area of the exhibition," explains Nicola Hamann, managing director of Mack Brooks Exhibitions.

The previous exhibition attracted a total of 11,900 visitors from 110 countries; visitors to the show are industry experts from airports, airlines, air cargo carriers and aviation-support.

Currently some 460 exhibitors from 37 countries cover a net floor space of more than 25,000 m² indoors and outdoors. Many exhibitors have booked larger stand space at this year's inter airport Europe in order to present a wider range of their innovative equipment to visitors. Live dem-

onstrations of new products and systems are a key feature of inter airport Europe, the world's largest platform for the entire airport industry.

inter airport Europe covers 4 exhibition categories: interRAMP (ground support equipment), interTERMINAL (technical terminal installations and services), interDATA (specialized hard and software) and interDESIGN (architecture and furnishings).

Source: Mack Brooks Exhibitions Ltd

BRIDGESTONE HOLDS OPENING CEREMONY FOR NEW OPERATIONS BASE IN AUSTRALIA

Bridgestone Corporation recently announced the opening of the Bridgestone Institute Global Mining Solutions Pty. Limited (BIGS), a subsidiary of the Bridgestone Group that offers development and training services related to mining operations. It was officially launched on April 9 at Mt Thorley, outside Newcastle, New South Wales, in Australia.

This operations base is the world's first to specialize in mining tire business development and offer comprehensive solution services related to off-the-road tires for construction and mining vehicles, belts and hoses.

BIGS will use data and concepts collected from Bridgestone's global network of tire production facilities and distributors to create the next level of industry-specific tire technology. It will also act as a training hub to ensure its service solutions can be reproduced in any location around the world, based on consistency of quality and expertise within these areas.

In the resource and construction industries tires are vital to production and safety, but are an ongoing cost and maintenance issue. As they can represent a significant component of a customer's operating costs, it is important to prolong the life of the tire. To that end, Bridgestone is not just focusing on the tire but also on improving the quality of support services to ensure a tire has every opportunity to meet its maximum work-life.

Source: Bridgestone Corporation

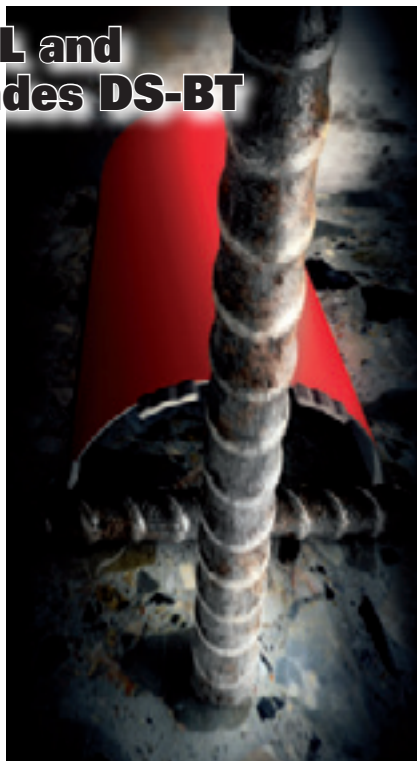
Hilti Equidist HCS/HCL and Equidist Wall Saw Blades DS-BT

Hilti Equidist technology for diamond core bits and wall saw blades features precisely positioned, evenly spaced diamonds for a high-performance segment matrix. This provides the best cutting characteristics under difficult conditions, especially in concrete with high steel content.

Both the HCS and HCL core bits are designed for coring in the 35 mm – 610 mm (1³/₈" – 24") diameter range in reinforced concrete. With pre-sharpened segments for easy, accurate hole starting and a high performance over the entire life of the core bit, users can see the superior performance provided by these bits. The new diamond core bits come in 2 specifications: HCS (High-horsepower Concrete Speed) and HCL (High-horsepower Concrete Life) built specifically for high horsepower motors (core rig DD 200 or larger).

The new Equidist wall saw blades DS-BT also feature diamonds in the segment matrix that are equally distributed and evenly spaced. Compared with conventional wall saw blades, Hilti Equidist blades achieve up to 35% high cutting performance and up to 45% longer life.

Source: Hilti, Inc.



CYANOTOXINS GUIDE TARGETS BLOOMING ISSUE

The American Water Works Association and the Water Research Foundation recently released a guide to help water utility managers detect and control cyanotoxins, the algae-related contaminants that led to a "do not drink" advisory for 400,000 people in Toledo, Ohio, last summer.

"A Water Utility Manager's Guide to Cyanotoxins" addresses cyanotoxin occurrence, source water management, and treatment strategies. Presented in a simple Q&A format, it is available for free download from both the AWWA and WRF web sites. A more technical companion document is also in development.

Cyanotoxins typically arise from cyanobacteria – often referred to as blue-green algae in lakes and reservoirs and can impact drinking water quality. While health effects from drinking water contaminated by cyanotoxins are not well understood, potential negative health impacts of prolonged or very high exposures include liver, nervous system, and gastrointestinal problems.

The guide comes as the federal government considers how to address cyanotoxins from both regulatory and legislative perspectives. The U.S. Environmental Protection Agency is expected to publish a health advisory on cyanotoxins during spring or summer of 2015, to assist regulators and water managers as they consider steps to protect the public from unregulated contaminants. U.S. Congress is considering multiple bills related to cyanotoxin monitoring and risk assessment.

"The Toledo incident launched cyanotoxins into the public consciousness," said AWWA president John Donahue. "This guide will help water managers make informed decisions in how they manage cyanotoxin concerns and communicate effectively with their customers."

"As we look towards the warm days of summer, this new guide presents water utility managers with the right information at the right time to help them confidently apply the best science and best practices to protect the communities they serve," said Robert Renner, WRF's executive director.

Established in 1881, the American Water Works Association is the largest nonprofit, scientific and educational association dedicated to managing and treating water, the world's most important resource.

With approximately 50,000 members, AWWA provides solutions to improve public health, protect the environment, strengthen the economy and enhance our quality of life.

Source: Water Research Foundation

TOPSOE PARTNERS WITH UNIFRAX TO MARKET IMPROVED CERAMIC CATALYTIC FILTERS TO THE INDUSTRIAL MARKET

Unifrax I LLC, a Tonawanda, New York

based manufacturer of specialty fiber products, and Haldor Topsoe A/S, a world leader in catalysis and related process technologies headquartered in Denmark, recently announced the signing of a partnership agreement. The partnership marks the beginning of a joint global effort to commercialize an innovative new line of catalytic filter candles.

This new product family will be marketed as TopFrax™ filters and was devel-

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oped for catalytic hot gas filtration in the industrial market.

Global regulations have reduced the permissible levels of particulate and hazardous gas emissions, making compliance costly and requiring companies to make substantial investments in pollution control technologies. Haldor Topsoe and Unifrax have worked closely to develop a unique technology that addresses the problems related to industrial emissions. TopFrax™ catalytic filter candle is designed to remove NO_x and particulate matter, and will also be launched in a version capable of removing VOC, CO and dioxin that are generated in many industrial processes.

Source: Unifrax I LLC, Haldor Topsoe A/S

ENDRESS+HAUSER ANNOUNCES NEW REPRESENTATIVE FOR SASKATCHEWAN

Endress+Hauser Canada is pleased to announce Summit Valve and Controls Inc. as its provincial representative for Saskatchewan.

The agreement took effect April 6, 2015 and offers exclusive representation for all Endress+Hauser products in Saskatchewan. Located in Saskatoon, Summit Valve and Controls has been, and continues to be a key player in the Saskatchewan market.

As a leader in the distribution and service of industrial and municipal valves and automation products, Summit Valves and Controls is pleased to add Endress+Hauser products to its existing portfolio of

products and services at its Saskatchewan facilities.

"This appointment is instrumental to the continued development and growth of our industrial instrumentation products and team. Our local customer service and support has been a key component to our success and we look forward to working with Endress+Hauser to enhance our market coverage in Saskatchewan," commented Charlie Johnson, director of Industrial Automation Products for Summit.

"Endress+Hauser products are best-in-class in process control automation, offering high quality instrumentation and solutions for all industries. It is a unique opportunity for Summit Valve and Controls to partner with a recognized world leader. We believe our customers will benefit greatly from the local support and quality solutions we can provide as a result of this partnership," he added.

Over the last 2 decades, Summit Valve and Controls, based out of Edmonton with regional offices in Calgary, Saskatoon, Winnipeg and Vancouver, has expanded to include complete valve, actuator, instrumentation and accessories, as well as engineering and start-up services. The company offers innovative products that reduce the total cost of ownership and improve process performance. The value they provide is more than the products they represent. Summit offers training on their products, as well as industry-specific application knowledge. Their mission is to be the technical resource to their customers for all their process measurement needs.

Summit's mission is in keeping with Endress+Hauser's customer focus. As Richard Lewandowski, general manager for Endress+Hauser Canada adds: "Partnering with Summit Valve and Controls in Saskatchewan offers our customers improved access to our technologies, solutions and services. Ultimately, customers are the beneficiaries as we leverage the combined strengths of both our organizations in the Saskatchewan marketplace."

Source: Endress+Hauser Group

Bosch Sets New Standard with GRL 500 HCK Self-Leveling Rotary Laser Kit

Bosch is putting the "PRO" in productivity with the new GRL 500 HCK Self-Leveling Rotary Laser Kit. With exclusive 2-in-1 receiver-remote functionality and integrated theft deterrence, the GRL 500 HCK is designed to increase ef-



iciency on the jobsite while decreasing theft concerns when operating at a distance. Fully equipped with the GRL 500 H Rotary Laser, LR 50 receiver, BT 160 contractor tripod and GR 8 grade rod, this rotary laser kit is the total package for outdoor leveling and grading applications.

"It just doesn't get any easier than this. Period," said Dan Rice, product manager, exterior leveling, Robert Bosch Tool Corporation. "We've raised the bar for even our own measuring tool standards with the introduction of the GRL 500 HCK. Whether construction workers need to align formwork, grade the land for a new street or bridge, or lay out walls or construction sites, the GRL 500 HCK provides an easy user-friendly interface for straightforward operation, increasing productivity and efficiency on the job."

Rotary lasers are often a target of theft when in use and left unattended. The GRL 500 H Rotary Laser eliminates this risk by pairing technology with the LR 50 receiver, which requires both devices be present for the laser to work. It is equipped with a movement sensor that triggers an alarm and locks all functionality on the laser and receiver if a sudden acceleration is detected. Adding to the tool's longevity is a robust metal protective cage that protects it from falls of up to 0.9 m.

Source: Bosch Tools

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Toronto's Distillery District Streetscape Revitalization

The Toronto Distillery District is characterized by its traditional brick-paved streets and lanes, the center core of which caters to pedestrians and cyclists. Regular motor traffic is restricted to designated streets and parking areas located around the district's historic center. Specific to these areas are the trees and the importance they bring to the streetscape revitalization. In order for these public spaces to maintain their ease of access and beautiful appearance, the trees must remain healthy – and that is where the StrataCell system comes in.

The recent renovation project that took place in this district required a group of visionaries which included general contractors, landscape architects, urban planners,



in the renovation project, especially when the major scope of the project shifted its focus to creating stabilized slopes to the streetscape and planting on brick-lined pedestrian walkways.

The StrataCell system offered the

that helped us assure the clients."

"Another benefit of using the StrataCell came into play when we had to deal with the paving and deep underground garage parking," said David Mugford, BLA, ASLA, of The Planning Partnership. "Dealing with



benefits required to sustain the trees, while its load-bearing capability provided the strength required for motor vehicle and pedestrian activity on the surface. Throughout the project planning, there were also concerns among clients to meet H₂O Loading and AASHTO standards, which further addressed why the strength provided by the StrataCell system made this a beneficial choice for being used.

"GreenBlue Infrastructure Solutions provided us with engineered drawings to assure the designers and clients that the StrataCell would meet these H₂O load requirements," said Michael Ormston-Holloway, BSc, MScP, GDHort, MLA, Associate of Planning Partnership and ISA Certified Arborist. "This was a great benefit to know,

this limited profile gave us a fine-grain approach to layer the StrataCells to allow us to get the maximum soil volume possible, especially since these trees can go into constrained conditions pretty easily." "The knowledge that GreenBlue Infrastructure Solutions offered gave us the ammunition behind the decisions we made," added Mr. Mugford. "It's a well-researched company that has done their homework – which makes it easier to work with their product."

Source: GreenBlue Infrastructure Solutions

designers, and contractors or all degrees who had great plans for this space to create an attractive downtown environment.

The Planning Partnership, a multidisciplinary practice providing land use planning, urban design, landscape architecture, and consultation services to public and private sector clients, was heavily involved

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



Basics of Corrosion Control

*Greg Lawrie, president,
Pro Fleet Care
Special Collaboration*

With the introduction of pre-emergent salts, rust has become an added cost of doing business fleet owners and managers. Automotive manufacturers have been successful in increasing the life span of their vehicles, but no one anticipated the impact of these next-generation salts. Although these salts have been embraced by local governments, environmental groups and the snow contracting community, fleet managers are extremely distraught. Not taken into account were the effects these salts would have on vehicles and infrastructure. These new salts are able to stick to the vehicles longer and are more active at lower temperatures. As a result, equipment is experiencing severe body rot, parts failures and something new – wiring harness issues – all because of corrosion.

Staying on top of corrosion issues can extend the life of the vehicles and equipment, reduce repair costs and downtime, and project a clean, professional, rust-free image in the marketplace.

CHOOSE THE RIGHT PRODUCT

Generally 3 types of products are used to control corrosion:

Cathodic protection (CP) – cathodic protection basically reduces the corrosion

rate of a metallic structure by reducing its corrosion potential, by bringing the metal closer to an immune state. CP is commonly used on pipelines, water vessels and metal structures. Although some have tried to use CP to protect vehicles, the corrosive environment in which those vehicles are used is different. Vehicle corrosion is primarily caused by deicers, which cause a chemical reaction with the metal.

Wax and tar products – During the mid-1980s, wax and tar products dominated the rust control industry. They were seen as having great coverage that could withstand the elements. However, these products do not penetrate hard-to-reach areas of the vehicle. They also dry out and crack, which allows salt and moisture to get trapped between the product and the metal surface and accelerates corrosion. Reapplying yearly is ineffective, since these products will not penetrate areas that have been left exposed because of cracking or shrinkage of prior applications. If you use wax or tar products, make sure the vehicle is dry, since these products will sit on water and accelerate corrosion.

Oil products – oiling has been used for many years. It penetrates hard-to-reach areas and neutralizes the harmful effects of rust. Oiling a rusty vehicle will help stop the corrosion process in its tracks. For oiling to work, it should be done yearly or as required.

When it comes to oiling, the less viscous (thinner the oil), the better its ability to penetrate into hard-to-reach areas of the vehicle. On the other hand, the more viscous (heavier) the oil, the longer it will protect the treated metal. When using an oil product, look for one that has been

designed specifically for corrosion control and consider using less viscous product for doors, fenders, hoods, engine compartments and hard-to-reach areas such as under the fuel tank. For areas such as wheel wells, frame rails and the underside, consider using a more viscous product, such as a wax oil. Because you want to use thin oil for much of the oiling of your vehicles and equipment, do not park them on a paved or interlocked drive because the oil will drip for 24 to 48 hours.

A common practice has been to reuse motor oil. Although the oil is free, used oils will often contain acids that can be harmful and promote corrosion. These oils are also not healthy for the applicator because carbon and acids become airborne during the application process, increasing the chance of inhalation or contact with exposed skin.

WHERE TO APPLY

The application process may also differ.



"Rust on iron" by Lairt Keiows - Own work. Licensed under CC BY-SA 3.0 via Wikimedia Commons - http://commons.wikimedia.org/wiki/File:Rust_on_iron.jpg#/media/File:Rust_on_iron.jpg

Some applicators may only spray the underside of the vehicle or only the body panels. Consider a complete process that protects the vehicle from the underside all the way to the roofline. It is important that holes are drilled in doors, "A pillars," tailgates and other inaccessible areas where rust can be prevalent.

Many products are not safe to be applied to the engine compartment because they will gum up the components. There are less-viscous products that can help protect the wiring harness and other moving parts but will not affect the engine's ability to perform as normal (check with product manufacturer before applying).

Finding and fixing corroded wires in a wiring harness can become costly, both in terms of repair expenses and loss of productivity from operational downtime. There is nothing quite as frustrating as having staff standing around while their trucks are sitting in the shop.

PREVENTIVE MAINTENANCE

Cleaning, greasing and spraying winter equipment, such as salt spreaders, plows, snowblowers and hand tools, during post-season maintenance eliminates the opportunity for corrosion to occur during the summer. Treating your fleet during off-peak times will allow you more time to make sure equipment is protected properly. Moisture is most active in the spring, but an annual spray will eliminate

corrosion for the year. Suggestions for proper maintenance:

- The equipment should be washed so that salt buildup has been removed.
- A salt eliminator can be used but is not necessary; a good rust control product will neutralize the salt.
- Once equipment has been washed, grease all bearings so that water and salt are pushed out of the bearing.
- Spray spreader chains with a penetrating rust inhibitor. Over time, this penetrant

will look dry to the touch. Re-apply with the same product or use a heavier product that has more body. Always use a penetrant first, because thicker products will not penetrate, causing the chains to bind over time.

- For salt spreaders, consider spraying the penetrant on the outside of gas engines, including into the start cord housing. It will keep parts lubed and eliminate the harmful effects of corrosion. When you are finished spraying the engine, use a





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thicker product (wax oil) to spray the rest of the equipment.

- Before treating vehicles, make sure that the underside and wheel wells are not packed with mud, salt or snow.
- Store winter equipment in a dry location. If you are storing outdoors, cover equipment with a tarp and find a dry location, either on pavement, gravel or up and out of the way on top of a shipping/storage container (make sure the container is rated to take the weight and that the item is secure so that it will not fall off). Never store items where moisture is prevalent, such as on grass or in a salt dome.

The Automotive Protection Agency (APA) suggests most modern vehicles will experience mechanical and body deterioration from corrosion after 5 or 6 years, and that rust deterioration will usually result in increased maintenance and repair costs or a reduced market value for the vehicle on resale. With the varying rust control options available, the product and process will determine whether rust control is a needless expense or smart investment for your company's equipment fleet. However, an effective annual rust control program can be worth its weight in gold.

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SP Series Spray Injection Pothole Patchers Feature Technology, Safety And Long-Lasting Pothole Repair

Bergkamp Inc. introduces the Bergkamp SP Series Spray Injection Pothole Patchers which leverage Bergkamp's intelligent InPave® Pothole Patching Management System to monitor and manage pothole patching performance. Truck-mounted versions of the SP Series, in an industry-first, can be custom-mounted on a conventional or cab-over chassis for optimum utilization of existing fleet vehicles. Truck-mounted units feature a front-mounted boom, providing a working radius of up to 3.9 m in front of the truck for crew safety, and can be operated from the cab or manually from the ground. The SP Series is also available as a trailer-mounted unit and offers manual operations.

With the InPave Technology, the SP Series provide an easy way to monitor production, performance and location of each pothole patcher and crew with multiple data-reporting sensors, which are strategically placed throughout each unit. As potholes are repaired, the data is automatically gathered by InPave Technology and transmitted back to the office for analysis. The web-based technology allows data retrieval from any computer with Internet access.

Spray injection is a less invasive patching technique than traditional patching methods, allowing the damaged pavement to be air-blown and repaired in minutes. The SP Series units feature 3 injectors in the rotating nozzle to guarantee homogeneous aggregate coverage and high-quality, durable pothole repairs. Compressed air is first blasted through the unit's hose to quickly and thoroughly clean out and dry the hole. The damaged area is then sprayed with asphalt emulsion. The operator selects the proper gradation of aggregate from 1 of 2 chambers in the hopper to best match the characteristics of the road. To top it off, a protective layer of clean stone is

applied, thus protecting passing vehicles from coming into contact with the asphalt emulsion.

The truck-mounted SP5 and SP8 Spray Injection Patchers are equipped with an industry-exclusive dual chamber (60/40)



aggregate hopper that allows the distribution of 2 different gradations of aggregate for more efficient repair of deeper potholes. Automatic in-cab joy stick controls are available as an option, in addition to manual boom operations from the front of the truck. The front-mounted boom can be mounted as a manual working boom on the existing truck with no need for special configurations, offering a lower-cost alternative to the cab-operated remote booms that require the cab-over configuration. Truck-mounted units are available as a complete package with a truck chassis of the customer's choice to accommodate fleet continuity. An exclusive dismountable configuration of the unit allows the truck to be used for other applications when not patching.

Source: Bergkamp Inc.

New Tier 4 Final XAS 185 Portable Compressor

The new Atlas Copco XAS 185 portable compressor gives contractors a reliable source of compressed air for a variety of jobs, including operating pneumatic tools and sandblasting. It is compact, efficient and economical, and features a 49-hp Kubota diesel engine that complies with Tier 4 final emission standards.

The XAS 185 features a fully automatic regulator that constantly varies the engine speed according to air demand, which minimizes fuel consumption. The 75 l fuel tank allows contractors to use the portable compressor for a full 8-hour shift without needing to refuel. They also can access all the controls quickly and easily from a single panel for smooth, hassle-free operation.

The XAS 185 features Atlas Copco's HardHat™ canopy that is made from highly durable, weather-resistant polyethylene. The canopy not only effectively protects the compressor's components but also resists impacts and will not corrode. This

minimizes repairs and virtually eliminates the need to repaint. As a result, the XAS 185 has a low cost of ownership and high resale value.

The compressor features removable side panels and front and rear baffles, so contractors can access the service points quickly for faster maintenance and reduced downtime. All exterior parts are made of a powder-coated Zincor® steel for excellent corrosion resistance.

"We strive to develop equipment that is among the most efficient in the industry, from the engine to maintenance," said



Rich Elliot, Atlas Copco product manager, low-pressure compressors. "This not only makes the XAS 185 ideal for contractors, but also rental centers, where high utilization and fast ROI are key."

Source: Atlas Copco

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BAUER Spezialtiefbau Involved in the Rehabilitation of the Berlin State Opera

The most elaborate rehabilitation project in the history of the Berlin State Opera has been in progress since 2010: respecting the features of the listed building, structural defects are being rectified while the obsolete equipment is being upgraded to a new technical standard, along with the stage technology. Disabled access, the air conditioning and fire protection are also being improved. The external fabric is being preserved and restored.

The general rehabilitation involves a whole series of specialist foundation engineering works under a contract awarded by the Berlin Senate to BAUER Spezialtiefbau GmbH and its consortium partner, Keller Grundbau GmbH. The specialist foundation engineering has particularly focused on building an underground structure which will in future connect the opera house to the new rehearsal center built on the premises of the former warehouse building; this link runs through the opera house's main



technological artery. The client specified that a complex trough excavation pit should be constructed for this purpose. Since June 2011, BAUER Spezialtiefbau GmbH has been executing this work in the technical director role together with its consortium partner. The specialist founda-

tion engineering will be completed by about mid-2015.

Constructing the trough excavation pit about 3,300 m² in size involves a wide range of individual works. Amongst other things, the joint venture constructed 1,300 m² of reinforced concrete diaphragm wall, 720 m² of diaphragm cut-off wall with inserted sheet piles and 5,200 m² of secant pile wall with diameters of up to 1,200 mm. In addition, 1,020 linear meters of foundation piles were sunk to depths of as much as 30 m. Among others 2 BAUER BG 28 drilling rigs, 2 Klemm drilling rigs KR 806-2B and 806-7 as well as a Bauer diaphragm wall grab on an MC 64 duty-cycle crane were used.

It was known from earlier building works that the site contained historical architectural remains; as a result, several exploratory bores were undertaken with a BG 28 rotary drilling rig at the start of the build. These revealed that the course of the diaphragm wall in particular contained many more architectural remains that had previously been assumed. Encountering several obstacles – including the strong-room of a bank destroyed by bombing – and the discovery of various wooden and later steel structural foundations meant that the original plans had to be adapted several times. For example, extensive jet grouting bodies were incorporated for shoring the opera house. Furthermore, parts of the shoring area for the stage house were sealed by freezing the ground for 9 months.

Source: BAUER Gruppe

Congratulations to Crevier Lubricants!



From l. to r.: Peter Haines - BioBlend, Daniel Talbot - Crevier Lubricants, Peter Trepanier - BioBlend

Crevier Lubricants was the top winner of the *BioBlend Distributor Incentive Plan* award for the last quarter of 2014. The award was presented to them at the recent Distributor Annual Meeting in sunny Marco Island, Florida.

Crevier Lubricants is a wholly owned subsidiary of Groupe Crevier. It was created in 1988 and charged to cover the lubricant sector. Well entrenched in the industry, Crevier Lubricants is now one of the foremost independent lubricant enterprises in the eastern part of Canada.

Source: BioBlend Renewable Resources, LLC

Machine Training in Oman

Turn the key and go! It is not quite that easy with many new machines today. Specialized training is often required for heavy equipment in order to maximize the potential.

The goal: Improved efficiency and profitability on the construction site. Well trained personnel reduces operator errors and the potential for machine downtime to a minimum and protects the health of the employees.

This is also why the Probst Greiftechnik Verlegesysteme GmbH service technicians travel around the world to provide training on proper operation and maintenance to dealers and end users.



They receive lots of hints and tips, starting with how to determine the optimal starting

point for laying paving stones at a site, moving on to positioning of the pallets and extending to replacing stones so they interlock properly. Possible troubleshooting scenarios are practiced: "What are the reasons that the layer of stones is slipping out of the grab?", "The grab is gripping too high up and has to be readjusted!". Safe loading and unloading as well as maintenance of

the machine are practiced as well.

Experience has shown that the personal introduction to new additions to the motor pool results in much faster acceptance.

Otherwise it is not unusual to watch the efficient tools and machines going unused due to apprehension about the new technology or operator errors, with the familiar old tools or even manual methods being used instead.

After completing the intense training, all successful participants receive a certificate attesting their newly obtained qualifications. The graduates at Allied Business Corporation (ABCON) in Oman were also proud to receive their Probst certificates. Over the course of 4 days, the employees received in-depth training on optimal use of the Installation Machine VM-301-PAVER-MAX. The parking lot of a Climacool Hotel was being built there. Further Probst equipment was also used on the site in addition to the heavy equipment, with training provided on its use as well. The Block Cutters AL was used to trim the paving stones at the end of the parking lot, and any damaged individual stones could be removed from the pavement quickly and easily with the Paving Block Extractor SZ.

The mission abroad is also important for the Swabian company Probst itself: The service technician experiences the specific challenges in the respective countries first-hand, and this information is passed on directly to the development department when they return.

As an example, particularly large radiators are installed in the installation machines as standard equipment so that they operate flawlessly even in subtropical countries.

Source: Probst Greiftechnik Verlegesysteme GmbH



During individual training sessions, the machine operators can look over the shoulder of the Probst service technician and gain experience under supervision.

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Quality at its Finest

For some companies, "quality" is just a buzzword. But for general contractor GS Holdings, "quality" has been at the heart of the company for 40 years. It not only describes the company's work but also the equipment it chooses to use – Hitachi excavators.

Headquartered in Edmonton, Alberta, GS Holdings specializes in water and sewer infrastructure, and offers a full range of services for municipal/civil construction, including infrastructure rehabilitation, new construction, land development, construction management and design-build.

"My father, Glen Sandwith, started the company in 1974, and we've worked hard to grow and be where we are today," said Terran Sandwith, president of GS Holdings. "He built the company based on his DNA – quality, integrity and hard work. That is our foundation, and we continue to focus on those things today."

from laborers to managers – and incorporate good ideas. We all try to help each other out, and our crews work together as a team."

If GS Holdings is on the job, there is a good chance you will see a Hitachi excavator working. Sandwith is proud of this visibility.

"Within the industry, Hitachi has a great reputation," he said. "When you use new equipment, especially something high-end such as Hitachi, it sends a statement about the quality of the work being done. People notice that."

The company currently runs a fleet of 10 Hitachi excavators, ranging from the ZX85USB-5 to its newest purchase, the ZX670LC-5.

"Since I've been with the company, we've used Hitachi," Mr. Sandwith said. "It's always been reliable, quality equip-



"I've been an operator for 36 years, and I prefer Hitachi," he said. "The 670 is fast for its size. It has all the power I need, and the controls are smooth and responsive."

The company also keeps Hitachi reduced-tail-swing excavators, like the ZX85USB-5 and the ZX135US-5, busy working on water main replacement and relocation projects throughout the year for EPCOR Utilities, the City of Edmonton's utility company.

"We do multiple projects for EPCOR within the city each year," Terran Sandwith said. "With Hitachi excavators, we're able to get into tight areas required for some of the jobs, like working three feet off a fence line."

Throughout the years, GS Holdings has focused on doing quality work, standing behind it and working as partners with engineering firms, municipalities, government agencies, developers, subcontractors and vendors – and the work has paid off.



Terran Sandwith joined GS Holdings in 2003 after a professional hockey-playing career, and took his teamwork mentality from the ice to the jobsite.

"Teamwork is one of our company's core values," he said. "We focus on finding good people and training them. We encourage feedback from everyone –

ment. We've bought used and new, and have had few problems. Also, the resale value for the equipment is high."

The new ZX670LC-5 was quickly put to work on a residential development water- and sewer-pipeline installation. And Howard Heppner, GS Holdings operator, is happy with its performance.

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"It's all about reputation," Mr. Sandwith said. "For years, we were thought of as a small company that only did municipal work but had an excellent reputation for quality and integrity. We've grown and expanded into more residential, commercial and industrial development work, and our number-one priority is maintaining that reputation."

GS Holdings also has a solid relationship with Wajax Equipment, its Hitachi dealer for about 15 years.

"We've worked with Wajax for a long time and have a trusting relationship with them," Mr. Sandwith said. "They're dependable and provide good service and parts. We look at them as one of our partners."

Even though GS Holdings has grown, the company honors its history by maintaining its core values and small business atmosphere.

"Although the industry has changed, especially with technology, we've kept my father's values within the company," Terran Sandwith said. "We still stand on our reputation and quality of work. The reason



we can do that is our employees. From our managers, to our foreman, to the field personnel, everyone takes pride in what they do and in upholding our company values. I am very proud to be a part of it."

GS Holdings celebrated its 40th anniversary in June 2014, and it fearlessly forges ahead while respecting the past.

"My father's first project for this com-

pany was in the Town of Hinton," Terran Sandwith said. "Now 40 years later, our crews are back out there. You could say it's come full circle."

GS Holdings is serviced by Wajax Equipment, Edmonton, Alberta.

Source: Hitachi Construction Machinery

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Priestly Demolition Secures the Premier KOBELCO SK1000 Demolition Excavator

KOBELCO has announced that the first SK1000 demolition excavator in North America was delivered to Priestly Demolition Inc.

Based in King, north of Toronto, Ontario, Priestly Demolition Inc. is a family-owned business that specializes in site work, demolition, abatement and remediation. The company purchased the massive 111 t demolition machine from Robert Green Equipment Sales Ltd. The KOBELCO SK1000 is already working on site at the General Motors assembly plant in Oshawa, Ontario.

Ryan Priestly, president/owner and Andrew Kelly, equipment manager/master mechanic of Priestly first saw the SK1000 while visiting KOBELCO at CONEXPO-CON/AGG in Las Vegas last year. Ken Folden, Canadian service representative for KOBELCO Construction Machinery USA, demonstrated the machine's features to

both Ryan Priestly and Andrew Kelly. "Ken emphasized the machine's impressive ability of being assembled, moved, and up-and-running within hours. He sold us on its capabilities right there at the show," says Mr. Priestly. "Two weeks later, Bob Green from Robert Green Equipment visited our office. I told him how impressed I was with the SK1000 and that I wanted to buy it from him."

KOBELCO demolition machines are so massive that potential buyers of this equipment must go through a thorough safety process check. Before Priestly was able to purchase the SK1000, the company needed to be certified by KOBELCO's headquarters as a qualified buyer. Over the course of 2 days, a crew of engineers and KOBELCO

representatives visited the Priestly office and observed Priestly employees as they worked on their jobsites. "After the



From l. to r.: Aaron Hopkins, of Robert Green Equipment Sales Ltd. and Ryan Priestly, of Priestly Demolition Inc.

analysis was complete, the KOBELCO team expressed how impressed they were with Priestly," says Bob Green. "The engineers

New Autogreaser Hose Monitoring Solution

FLO Components Ltd. has announced its introduction into Canada, of the new Hose Connection Control System (HCC) to monitor the grease lines in automatic greasing systems on trucks and heavy equipment (construction, road building, mining, etc.).

"Historically, regardless of the brand of Automatic Greasing System or operating principle used, one potential weakness has been that a break in a grease feed line (the final length of hose that connects to a bearing) would go undetected if a visual inspection is not conducted," according to Mike Deckert, vice president of FLO Components Ltd. "The system would continue to operate without ever greasing the point with the broken line. Ultimately of course, the bearing could fail."

The HCC is designed to check for breaks in the grease hose, and alerts the machine operator immediately if there is a fault in either the main line from the pump or in the feed lines to the bearing points.

The HCC includes the main analyzer unit,

connectors that act as electric isolators between the grease lines and the grease metering valves, and connection cables



to the analyzer. Grease hoses must be steel shielded to conduct electricity. As shown in the images of a demonstration panel provided by FLO, normal operation is indicated by a green light in the cab. In case of a fault, a signal is sent to the main analyzer and a red light alerts the operator there is a problem.

Requiring either 12V or 24 V DC, the analyzer unit can monitor from 10 to 20 hoses, depending on voltage and can be

easily retrofitted into existing lubrication systems. The system has an operating pressure up to 300 bar (4,351 psi), can be used in temperatures ranging from -40°C to +70°C (-40°F to 158°F), and is not affected by line lengths, ambient temperature, pressure differential or pressure losses.

Source: FLO Components Ltd.

said Priestly was the most professional demolition company they'd ever worked with in the demolition business."

The negotiation process began following KOBELCO's official certification of Priestly as a qualified buyer. Several managers and executives from each party were present for the meetings that took place throughout the process. Pete Morita, president of KOBELCO USA, personally made several visits to Canada. "The process of negotiation is usually lengthy, but we were able to come to an agreement and made a final handshake on the sale in November," says Mr. Morita. "The employees at Priestly are experts in the field; plus, they're a great group of people to work with. It was a pleasure to have the opportunity of doing business with them." The negotiation process was brought to a close and Priestly agreed to purchase the KOBELCO SK1000 from Robert Green Equipment Sales.

After the agreement was made, Mr. Priestly and Mr. Kelly completed a final inspection of the machine which was stored in Las Vegas following the show. "I wanted to get into the operators seat and actually



run the SK1000," says Mr. Priestly. "Just as Ken told us at CONEXPO-CON/AGG, we were able to retract the machine's extendibility, insert a separate boom attachment, and have the machine up and running within hours. We were amazed. At that point we couldn't wait to bring the machine home and put it to work." Transportation of the massive SK1000 demo excavator from Las Vegas to Ontario was handled

by Landstar Transportation Systems and involved a total of 7 loads.

Robert Green Equipment Sales Ltd. is an authorized KOBELCO dealership that offers the full line of KOBELCO compact, short-radius, mid-size, and full size excavators as well as demolition machines for sale or rent to customers in the Toronto area.

Source: KOBELCO Construction Machinery USA

Atlas Copco Introduces New LT5005 and LT6005 Rammers

Atlas Copco recently introduced 2 new rammers, replacing the LT5004 and LT6004. These new rammers feature ultra-slim bodies, ideal for getting closer to structures and through narrow spaces. Like all Atlas Copco rammers, the new LT5005 and LT6005 provide high centrifugal force and speed for deep and effective compaction.

Atlas Copco featured the rammers during World of Concrete in Las Vegas, Nevada, and The Rental Show (ARA) in New Orleans, Louisiana.

At a mere 152 mm wide, the LT5005 is 76 mm smaller than its predecessor and the LT6005 is 228 mm wide – 50 mm shorter than the previous model. These slim designs enable operators to easily compact cohesive and granular soils in confined spaces, such as small trenches, ditches, backfills and foundations. The smaller size also makes it easy for operators to work close to walls or posts.

Atlas Copco designed the rammers with a rubber isolator on each side of the handle to absorb vibrations that would otherwise be transmitted to the operator.

This reduces the risk of injuries, such as carpal tunnel syndrome and hand-arm vibration syndrome. The rammers also feature a single lifting point that allows users to easily move them from hard-to-reach spaces with large machinery, such as a crane.

The rammers are equipped with a Honda GXR120 engine that features an overhead camshaft and timing belt that operate with minimal noise. The oil alert LED indicator on the rammers notifies operators when the oil level is too low for proper engine lubrication. The rammers also are equipped with a throttle control with 3 fixed positions, stop, idle and run. This feature eliminates the risk of leaving the throttle half open, which optimizes fuel use.

"The slimmer profile and reduced weight truly improve the machines' handling in tight spaces, allowing workers to get into areas they couldn't before,"

says Darrell Engle, product development specialist.

Atlas Copco also designed the LT5005 and LT6005 for easy onsite maintenance. Each unit is equipped with a large air filter that users can change without tools. An upgraded air filter indicator is available upon request. It is designed to alert the operator when a filter needs replacing. Users also can equip the units with hour meters to accurately track service intervals.

Operators can use Atlas Copco's optional trolley to quickly and safely lift and transport the rammers. During lifting and transportation the rammers activate an automatic integral lock, which prevents excessive wear on the shock absorbers. Plus, the fuel tank features an improved seal to prevent fluids from leaking during transportation.

Source: Atlas Copco



GO Drilling Employ Sandvik Tools and Rigs to Follow a Straight Line to Success

For 31 years GO Drilling from Ottawa, Ontario, has been leading the way in drilling straighter, and more productively than the competition. As the leading drill & blast contractor in the area, the company attributes its success to the skills of its employees, its vast array of Sandvik Construction drill rigs and tools, as well as its relationship with Sandvik's distributor, Selix Equipment.

Drilling straight holes in unstable rock formations is an accomplishment and GO Drilling Inc. does it all the time. This has allowed the Ottawa, drilling and blasting company to now enjoy a reputation as a "straight-shooter".

"We face lots of different types of rocks in Ontario: soft rocks easy to drill, soft abrasive rocks, and hard granite with lots of seams," says Mat Oswald, the company's operations manager. "The seamy rock is especially challenging. It is our biggest challenge in keeping straight holes and accuracy."

Seams are tricky because when a drill bit strikes a fault, the unequal pressure encourages deviation from a true course. Cohesion of the drilled material also becomes problematic and the binding force along cleavage planes is reduced. Result? The vertical hole starts wandering.

In short, it is a tough job descending from here to there in a straight line; yet GO Drilling routinely succeeds at it. "We are known for drilling straight holes," Mr. Oswald says, matter-of-factly. "We have taken work from our competitors for being able to produce straight holes through fractured rock."

Mat Oswald credits his drills and his skilled crewmembers for the company's performance, with GO Drilling being the first in Canada to turn to Sandvik hydraulic drills. Today, they own 17 Sandvik rigs. They range from one 5,000 kg Commando hydraulic unit, to five Pantera 1500 top hammer drills, each weighing 21,770 kg. Other Sandvik models in the equipment yard include one Pantera 1100, a DP1500 and a DX800.

The DX's articulated boom rides on a work platform that can be rotated up to 180° to keep work in front of the operator. The superstructure is powered by a CAT

diesel engine and counterweighted for optimum stability on uneven terrain. It can drill holes 89 mm to 127 mm in diameter. The DP series, just like the current DPi series, can punch holes 89 mm to 152 mm in diameter and are equipped with powerful CAT engines. The DP series are of robust construction supported by oversized components and strong feed.

"Sandvik drills always have been good for us," says Mat Oswald. "They are very powerful drills, very reliable, and it is easy to keep parts for them because they are all the same. Personally, I don't think there are any other drills like them. We have demoed other brands, but they don't seem to hold up to Sandvik's production." And, of course, the machines drill straight. "They do very well in drilling through the seams to give us straight holes."

Some of the drills' accuracy is attributed to the Sandvik Rock Pilot system incorporated in each rig. The sophisticated monitoring system typically keeps course deflection to under 2%. The practical consequences for operators are fewer drilled holes for placement of charges, quicker completion of a drilling operation, and less stress and fatigue on the drill string.

Sandvik rock tools also help keep drills on track. The tools used by GO Drilling include the Sandvik GT60 drilling system, which the company employs for blast holes. The GT60 features larger-dimension rods that can ream out holes 92 mm to 152 mm in diameter; an unusually broad range. The Sandvik rods are fabricated in the only rolling mill in the world that exclusively rolls drill steel. Leading the way down a hole is a Sandvik pilot tube that sets a sure course. "The GT60 has great quality," Mr. Oswald says, adding that tools from other makers tend to break. "We have found that Sandvik tools last quite a bit longer than other brands."

The other key contributors to all those

straight holes are GO Drilling employees who operate the machines and maintain them. The company has 15-25 employees, with the number depending on the season, including drillers, blasters, excavator operators and shop technicians. A company garage handles most drill servicing and repair.

Mat Oswald takes pride in the fact that some employees have been on the payroll for two decades, a statement about company loyalty and expertise. "We have some of the best drillers there are. Certainly all of our customers think so! We train until we produce the best. We spend a lot of time

and money training our drillers, making sure they are up to our standards."

GO Drilling sinks bits into rocky terrain all over Ontario, a province that is home to thousands of kinds of minerals. The company specializes in drill-and-blast operations in quarries and for construction projects.



From l. to r.: Mario Roussel and Mat Oswald

Construction work includes right-of-way clearance and anchoring foundations, with drilled holes range from 25 mm to 152 mm. GO Drilling just completed working on a 300-home development by Ottawa-based Taggart Construction Ltd., with drillers creating trenches for placement of sewer lines and water and storm drains.

Solar panel projects have kept GO Drilling operators especially busy in recent years. The Ontario Power Authority is pushing to diversify its power sources and make the province a leader in the renewable energy industry. A recent Authority project was a 10-MW solar installation about 50 km from Ottawa that featured 44,000 solar panels on 32 ha. GO Drilling drills rock for foundations for solar panels and blasts trenches for power cables running from panel fields.

The company relies on an Ottawa sales and service firm, Selix Equipment, to supply drill parts that eventually wear out battering themselves against granite and

other rock. Selix is the Ontario-wide distributor of Sandvik drills and components. Prior to establishing a business relationship with Selix, GO Drilling dealt directly with Sandvik offices in Lively, Ontario, and Montreal, Quebec. "It has been very good for us that Selix is so close," says Mat Oswald.

"Proximity is important to a busy company like GO Drilling. Our goal is to keep the drills turning," says Selix representative Mario Roussel. "To that end, we have factory-trained mechanics, fully equipped service vehicles and a large inventory of Sandvik parts. We coordinate with Sandvik to make sure our priority is prompt service."

Mat's father, Gary, founded GO Drilling 31 years ago after he decided to work for himself. He had been drilling and blasting for other companies on pipelines. He first bought a Gardner Denver drill, but soon switched to Sandvik. His fleet of machines quickly grew along with his work load, first on construction sites and then in quarries.

Today Mat heads the family company that he joined 14 years ago. His younger



brother, Nicholas, operates drills, is learning the delicate work of blasting, and manages the company's work with solar projects. "It is a lot easier to work in a family business," says Mat Oswald. "The working relationship is a lot closer." He adds that, besides family, the unpredictability of his work energizes him. "What I like about my job is that every day is different. There never is one day the same as another.

Every day the job and the drill surprise me. I always have something new."

With his father as a consultant on decisions, he moves smoothly between estimating jobs, blasting rock, and repairing drills. It is an eclectic routine worthy of a company that is wide open to job opportunities. "We drill everything and anything that there is", says Mat Oswald.

Source: Sandvik Construction

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The CASE for Profit

CASE Construction Equipment has launched the new D Series Tier 4 final excavator line at their Tomahawk Customer Center.

On the surface of this new series are the typical dress-up features. Things like improved hand rails for accessibility on the upper deck, a useful addition that does not restrict access or visibility. Also a standard Bluetooth feature to the cabin stereo allows the operator to remain in control when needing to communicate via a mobile device. Probably the most welcomed of these features, from an operator's perspective is the standard heated seat with a full range of adjustments for comfort.

These features offer an element of civility in what is generally considered a rough and ready environment, but they do not translate directly into productivity. Fortunately CASE engineers understand that no matter how nice the paint scheme, the machine must pay its way by bailing dirt as smoothly and efficiently as is possible. This is where the D makes the grade.

The range for the new series currently extends from the 210 up to the 350 D, with new products still under consideration for development.



The Tomahawk Customer Center keeps a range of equipment from all product lines CASE produces. This permitted a realistic evaluation between the 300C and 300D models.

Superficially there is little to differentiate the C and the D Series, as is typical with an evolving genus. Look closer and you can begin to see subtle details that distinguish the current offering.

The creature comforts mentioned earlier, mask the attention to detail where it really counts. Pins, pin bosses, bushings have all been beefed up and also feature graphite impregnated material to increase service life and reduce service intervals. Combined

with ProCare and the new telematics system, worry-free service and efficient asset management will serve to maintain operational status and uphold resale value.

But what the experienced operator will notice is the increase in the smooth flow of power. Both C and D are incredibly quiet and it is easy to assume the engine has shut down as both idle silently and smoothly. When the digging begins the differences start to be revealed.

The D version has a notable feel of power under control. You might say the C is like a young unbroken colt and the D is the same creature refined by discipline to be a thoroughbred. Where the C may snap, the D channels that energy into the task. Part of this is due to the regeneration between boom and arm that CASE has refined.

This efficient use of fluid power starts in the D with high flow variable displacement Kawasaki pumps, the output being channelled through larger bored valves and components. This permits not only faster response times, but improves feathering resulting in less chatter and noise from the hydraulic circuit. Cooling and lubrication of components is also improved as a result of this less restricted flow.

Excellent all around visibility, a comfortable pressurized cabin and luxurious seating will give even a modest operator the confidence to up their game, thus improving productivity.

More material moved, less fuel consumed, controllable service costs and a happy operator make the CASE D series excavator the shiny new tool in the sandpit that the other kids will envy. (R.H.)

Source: CASE Construction Equipment

Scania Joins Forces with Oshkosh

Scania and Oshkosh Corporation, a leading manufacturer of specialty vehicles and vehicle bodies, have agreed to enter into a partnership under which Scania will deliver low-emission engines for airport product vehicles produced by Oshkosh. The partnership will cover a range of products to be launched worldwide.

Scania will begin by delivering industrial engines that meet EU Stage IV and EPA Tier 4 final standards without the use of particulate filters, as well as engines that meet less strict emission levels. The 550-770 hp engines will be incorporated into airport product vehicles.

Meanwhile, Oshkosh is scheduled to launch a new fire apparatus – a firefighting vehicle based on a Scania chassis – at the Interschutz fire and emergency services fair in Hanover, Germany, in June this year.

As the partnership progresses, Oshkosh

will launch further vehicles based on Scania products.

“As time goes by, we expect to find a range of areas where both parties can grow their businesses,” says Robert Sobocki, senior vice president of Scania Engines. “This partnership has also strengthened Scania’s position on the growing North American market.”

“We are excited to have access to Scania’s renowned low-emission engines for Oshkosh’s expanding lineup of emergency response vehicles,” said Jim Johnson, Oshkosh Corporation executive vice president and president, Fire & Emergency. “Providing our customers with more choices to better meet their needs is an important part of our growth strategy, and offering Scania power is another major step forward.”

Source: Scania

Mitas Introduces New ERL-30 Tire in Paris

Mitas unveiled the newest addition to its family of ERL-30 earthmoving tires at Intermat, held in Paris April 20 - 25, 2015. The new Mitas 29.5R25 ERL-30 tire will be available for worldwide sales early in June 2015. ERL tires are used on loaders, dozers and graders in mining operations. The all-steel radial construction of Mitas 29.5R25 ERL-30 tire is designed for large wheel loaders such as Liebherr L 586 and Caterpillar 980.

"Mitas has massively invested in new production facilities for industrial tires at its plant in Zlin, in the Czech Republic. The range extension of ERL-30 is proof that we will grow stronger in the industrial tire segment," said Andrew Mabin, Mitas' sales and marketing director.

"Several sizes of Mitas OTR tires underwent very severe tests in open mines in Siberia and proved performance comparable with premium brands," added Rudolf Mačák, Mitas' R&D director.

The Mitas 26.5R25 193B ERD-40 have



been tested since May 2012 at JSC "Tuchkovsky KSM", in Russia, on a Volvo A35D articulated dump truck. The tires are still in good condition after more than 11,000 operating hours as the test continues.

The ERL-30 is designed for mixed conditions of soft and hard terrain. Its tread pattern is particularly resistant to wear and support retreading. The whole ERL/ERD line is radial with a steel-reinforced carcass and steel breakers.

MITAS a.s. is one of Europe's leading producers of agricultural tires. The company manufactures and sells tires under 3 brand names: the company's own Mitas and Cul-tor, and Continental under licence.

MITAS a.s. is a member of ČGS HOLD-ING a.s. and operates production plants in the Czech Republic, in Serbia and in the U.S., and maintains a global sales and distribution network.

Source: MITAS a.s.

Trelleborg Introduces Specialist Construction Tire Range on Intermat Debut

Trelleborg Wheel Systems, global market leader in industrial tires, made its debut at the Intermat 2015 exhibition highlighting its range of construction tires. The Brawler range of solid tires were on display, as well as the company's C-800 OTR pneumatics and the latest product offering for Europe; rubber tracks.

Richard Leborgne, regional director for France & Benelux, commented; "We are delighted to be at Intermat 2015 with our Construction range. Brawler is designed to work in some of the most demanding environments on earth and we believe that the benefits of choosing Brawler are very clear – increased productivity, reduced maintenance costs and better reliability. We are also very pleased to be featuring our range of OTR pneumatic tires and rubber tracks, all of which combine together to give us a very clear offering to the construction sector."

The Brawler range of large off-the-road (OTR) solid tires are specifically designed for use in demanding environments where

pneumatic tires are more susceptible to damage and failure, including construction, demolition, waste management and underground mining.

This range of construction products perfectly complements Trelleborg's existing range of premium tires for materials handling applications and underpins the company's successful presence in the construction segment. Sites often operate 24/7, and require that tires last longer, maintenance is minimized and the best 'Total Value of Ownership' over the tires whole life is maximized.

"At Trelleborg we believe in adding value to customer operations through products that are designed to last longer,



reduce machine downtime and perform safely from day one until they need to be replaced. In Brawler we have a proven market leader and we believe that our rubber tracks perform comparably with OEM products. We are very excited by the possibilities ahead in this challenging market and to working with our customers on some very interesting projects," continued Mr. Leborgne.

Source: Trelleborg Wheel Systems

Volvo Penta Hits the Road with BBA Pumps

Volvo Penta and Holland-based mobile pump manufacturer BBA Pumps are assisting with a major highway project in the Netherlands, providing maritime and infrastructure services giant Boskalis Nederland with a high-flow dewatering pump unit to rid the highway jobsite of excess water.

BBA Pumps has used the complete range of Volvo Penta engines for around a decade in pumps whose applications range from firefighting to sewer bypass to flood control.

"We work with Volvo Penta because they have excellent brand recognition, of course, as well as being easy to do business with," says Henno Schothorst, BBA Pumps' product manager. "They're also known for their service organization in Europe. They are the brand to use when it comes to service. But for us, the main benefit is that Volvo Penta engines suit our applications – they're easy to install, and the range of power settings they offer is ideal."



That suitability was especially evident in one of BBA Pumps's most recent projects with Boskalis Technical Service Nederland (Boskalis Nederland's internal rental company), which manages mobile pump units with high and ultra-high flows. The company has strict requirements for its pumps, which work in a variety of projects around the world. These specifications include high fuel efficiency and the lowest

possible exhaust emissions. For easy handling and jobsite suitability, Boskalis requires a maximum weight of no more than 12,000 kg and dimensions that will allow it to fit inside a 20' container.

When Boskalis Nederland needed a pump to support the widening and partial rerouting of the A1 motorway that runs through Muiden, Netherlands, it deployed a BBA water transfer pump unit – a BA-C500S11 D711. As Boskalis pumps a mixture of sand and water along the existing highway to create a base for the extra lanes, the BBA unit pumps excess water to a reservoir 3 km away. The pump is equipped with a 500 hp (375 kW) 13 l Volvo Penta TAD1374VE engine. The engine is among the most fuel efficient in its class at 207 g/kWh and is equipped with a cooling package and a newly developed lightweight canopy. In part because of Volvo Penta's compact but powerful unit, the pump fits easily into a standard 20' container and weighs just 10,800 kg.

Thus far, Boskalis Nederland employees have been impressed with the unit's performance – including its low noise levels. Operators have remarked on the pump's lack of smoke from exhaust at start-up, as well as its ability to work at half throttle to do the job – at 1,250 rpm, the engine provides as much capacity as the previous engine did at 2,000 rpm.

Because of the success of the Volvo Penta-powered pump on the jobsite, BBA Pumps decided to include the unit – built to Boskalis's specs – in its standard product range. "We can't ignore this any longer," says Mr. Schothorst. "This is a pump unit for the future."

Source: AB Volvo Penta

Hydraulics Technical Training Courses Available in 2015 from Bosch Rexroth

Bosch Rexroth is accepting registration for all courses in its popular training program designed for industrial hydraulics and mobile hydraulics systems engineers. Rexroth's Hydraulics Technical Training is targeted toward individuals who maintain hydraulic systems, design new systems or want to upgrade existing systems with new technology.



Rexroth provides on-site training for specific hydraulic installations, and customized training programs are available with test stands delivered to the participant's location. Online Basic Hydraulics Training is also available as a self-directed eLearning course that includes an overview of functions and characteristics of hydraulic components in a hydraulic system.

In addition to on-site and self-directed training, registration is now open for scheduled courses through December 2015.

Courses are held at Bosch Rexroth facilities in Canada as well as various locations in the U.S.

Source: Bosch Rexroth

Volvo Trucks Furthers Application-Specific Offerings with Volvo VNX Tridem Model

Volvo Trucks' powerful Volvo VNX 630 model, designed for high gross weight applications and heavy-haul tasks like heavy equipment hauling, oil and gas delivery and timber transport, is now offered with a tridem rear axle group, offering maximum traction and an increased payload for customers.

Customized to meet the demanding requirements of heavy-haul applications, the Volvo VNX 630 tridem features 3 rear drive axles instead of 2, resulting in an 8x6 configuration that can easily manage up to a 31,300 kg rear axle load. The extra traction capabilities of the tridem axle enables the VNX 630 tridem to easily traverse steep terrain, mud, ice and other off-road conditions.

"Power and performance are two benefits our heavy-haul customers demand," said Göran Nyberg, president of Volvo Trucks North America. "The VNX tridem meets these needs, offering a solution to

ensure the easier transportation of heavy-haul loads."

Equipped with the Volvo D16 engine delivering up to 600 hp and 2,050 lb ft of torque, the VNX comes standard with the Volvo I-Shift automated manual transmission. The I-Shift's integrated sensors identify truck load and road grade to place the truck in the right gear for the condi-

tions, allowing for smooth, optimum shifts, improved fuel efficiency and extended clutch life and service intervals.

The VNX 630 features a mid-roof sleeper equipped with Volvo's ergonomic dash, ample storage room and contemporary styling and trim levels, ranging from vinyl for rugged applications to premium leather for ultimate driver comfort.

The Volvo VNX also provides proven safety features, like a sloped hood and large windshield for superior visibility, standard driver's side airbag and cab constructed with High-Strength Steel.

Standard on all Volvo-powered vehicles, Remote Diagnostics helps maximize vehicle uptime by providing diagnostic and repair planning assistance with detailed analysis of critical diagnostic trouble codes. In addition to providing proactive diagnostic and repair planning assistance, the service helps improve parts availability and provides technicians at the repairing dealer with easy-to-read repair instructions before the truck arrives for service. Remote Diagnostics has demonstrated a marked improvement in repair accuracy and efficiency, reducing the average diagnostic time at service locations by 70% and lowering the average time of repair by more than 20%.

Source: Volvo Trucks



An advertisement for Ingersoll Axles. At the top, the logo "INGERSOLL AXLES" is displayed in white on a black background, with "AN IMT COMPANY" in smaller text below it. Below the logo, the text "Axles, Suspensions Accessories & More" is written in a large, bold, sans-serif font. The background of the ad shows a blue and white Volvo truck driving on a road, with a large axle assembly and suspension components overlaid in the foreground. At the bottom, the text "Essieux, Suspensions Accessoires & Plus" is written in a bold, sans-serif font. Below this, in smaller text, it says "View our full line of products and services at" and "Voir notre gamme complète de produits et services" followed by the website "www.ingersollaxles.com".

You can watch videos related to some of our featured stories on www.infrastructures.com

Watch for the  logo

New Tanguay J100B Road Widener & Precision Paver

Last March, Tanguay unveiled the B version of its J100 Road Widener/Precision Paver at the National Heavy Equipment Show, in Mississauga, Ontario, and at the World of Asphalt, in Baltimore, Maryland. The attendees were impressed by the compact design and quality manufacturing of this new Tanguay J100B shoulder machine!

The self-propelled J100B with a 50 hp Perkins engine pushes the dump trucks and controls its speed with a simple joystick for clean and precise spreading of aggregates, asphalt or top soils for specialties like road shoulders, trenches, sidewalks, railroad filling, etc.

The operator is sitting on top of the blade for exceptional job visibility and precision. Blade adjustments are done hydraulically from a single joystick allowing spreading narrow 30 cm trench up to 1.8 m wide; height adjustment varies between 15 cm below ground level and 25 cm above and $\pm 8^\circ$ slope adjustments. Everything

is adjusted hydraulically with the push of a button!

The heat and oil resistant conveyor belt is powered by a dedicated hydrostatic circuit feeding up to 300 t/h. Doing shoulders, dump trucks are empty in less than 4 minutes!

The hydrostatic drive system and powerful steering assist permits easy truck pushing and constant and precise spreading.

Harsh winters are not easy on our road infrastructure and the innovative Tanguay J100B road widener and precision paver is the right tool to help you to improve and maintain roads at a lesser cost!



Tanguay is looking for dealers in your area. You are welcome to contact Tanguay directly to discuss and schedule a Demo with your favorite local dealer.

Source: Tanguay Machinery

A man in a suit and glasses is standing and holding a large black pipe over his shoulder. The background is a dark, stormy sky with lightning bolts. Text on the right side of the image lists various manufacturers: TRAMAC, ALLIED, STANLEY, N.P.K., RAMMER, FURUKAWA, TELEDYNE, OKADA, and MELROE-BOBCAT. The company name 'GEOROC FOR' is prominently displayed in a stylized font, with 'ACCESSORIES INC.' underneath it. A phone number and website are also provided.

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The advertisement features the Tanguay J100B logo at the top, with the text 'Road widener and precision paver' and 'Compact self-propelled shoulder machine' below it. A photograph shows the machine in operation on a road, with a worker in a red safety vest and hard hat standing next to it. A large red circular button with the text 'Contact us for DEMO' is overlaid on the bottom left. To the right of the button, the phone number '1-800-463-9856' and the email address 'info@tanguay.cc' are listed.

Tanguay J100B

Road widener and precision paver

Compact self-propelled shoulder machine

Contact us for
DEMO

1-800-463-9856
info@tanguay.cc

Appointments

Superior Industries, Inc. announces the hire of 36-year aggregate industry veteran **Doug Lambert**. In March, Mr. Lambert was appointed to a role as a sales and application engineer in the manufacturer's new construction management division.

He comes to Superior after spending the last 8 years as a regional sales manager for Terex Minerals Processing Systems. His roots in the construction aggregate industry are deep. Doug Lambert's grandfather founded Lambert Brothers Crushed Stone, which merged with Vulcan Materials Company in the late 1950's. He himself joined Vulcan in 1980 and during the next couple decades spent time in several roles including positions in quality, sales and plant management.

At Superior, Doug Lambert will work alongside Jason Adams in the company's new construction management division. His vast industry experience will be an asset to Superior's customers as Mr. Lambert's chief role is to recommend and confirm equipment for design-build projects and applications.

Source: Superior Industries, Inc.



Okemos, Michigan, the founding company of Efficiency Production, when he was 17 years old.

Mr. Austin will be responsible for overseeing Efficiency's entire sales operation and staff, as well as directing all liaisons with the company's extensive North American dealer network. He replaces Gary Bushong who served as Efficiency's vice president of Sales for 24 years.

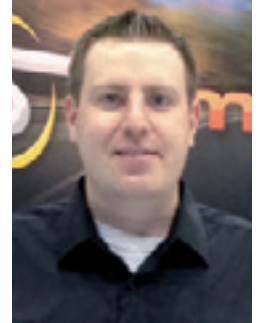
Source: Efficiency Production, Inc.

David Tremblay, president-CEO of **Simard Suspensions** is pleased to announce the nomination of **Michael King** as regional sales manager, Ontario and Maritimes.

"With a Bachelor Degree in Business Administration at University of New Brunswick, Mr. King also cumulates experiences in the transport industry as operator, service advisor, territory manager and also past officer in the Canadian Air Force. We are very happy to welcome Michael King in our team," says Mr. Tremblay.

With 125 employees and facilities in both Quebec and Alberta, Simard Suspensions is a leader in North America for heavy-vehicle modifications. In addition of its renowned suspensions products, Simard offers all-wheel drive conversion, chassis modifications and equipment installation.

Source: Simard Suspensions



Efficiency Production, Inc., the country's leading manufacturer of trench shielding and shoring equipment, is proud to announce the selection of **Rod Austin** as the company's new vice president of Sales.

Since 2010, Mr. Austin has served Efficiency Production as the senior Slide Rail installer and estimator in the company's highly-regarded Special Operations Shoring Division. Rod Austin, a former Army Ranger and Iraq War Veteran, brings to his new position over 20 years of extensive experience in the underground construction industry. Before joining Efficiency, he worked as a superintendent and project supervisor at Woodhull Construction, located in Laingsburg, Michigan, for 16 years. Rod Austin began his career working for Forsberg Construction in



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Agenda

2nd Annual Health and Safety in Mining Forum

May 20 - 21, 2015
 Toronto, ON Canada

Waste Expo 2015

June 2 - 4, 2015
 Las Vegas, NV USA

AORS Municipal Public Works Trade Show

June 3 - 4, 2015
 Exeter, ON Canada

Lift & Move USA

June 16 - 17, 2015
 Chicago, IL USA

American Water Works Association's Annual Conference & Exposition

June 7 - 10, 2015 / Exposition June 8 - 10, 2015
 Anaheim, CA USA

APOM technical day

September 4, 2015
 Saint-Henri-de-Lévis, QC Canada

IFAT Environmental Technology Forum Africa

September 15 - 18, 2015
 Johannesburg, South Africa

ICUEE - The Demo Expo

September 29 - October 1, 2015
 Louisville, KY USA

WaterSmart Innovations Conference and Exposition

October 7 - 9, 2015
 Las Vegas, NV USA

Pavement Preservation & Recycling Alliance Fall Meeting

October 13 - 15, 2015
 Niagara Falls, ON Canada

IMEX America 2015

October 13 - 15, 2015
 Las Vegas, NV USA

China Mining 2015

October 19 - 22, 2015
 Tianjin, China

Eco Expo Asia

October 28 - 31, 2015
 Hong Kong

ICEF 2015 (International Construction Equipment Forum)

November 2 - 3, 2015
 Amsterdam, The Netherlands

World Crane & Transport Summit 2015

November 4 - 5, 2015
 Amsterdam, The Netherlands

Municipal Equipment Expo / Waste & Recycling Expo Canada

November 4 - 5, 2015
 Montreal, QC Canada

2015 Trenchless Technology Road Show

November 17 - 19, 2015
 Richmond/Vancouver, BC Canada

Water Expo China

November 18 - 20, 2015
 Beijing, China

The Work Truck Show

March 2 - 4, 2016
 Indianapolis, IN USA

World of Asphalt and AGG1

March 22 - 24, 2016
 Nashville, TN USA

bauma 2016

April 11 - 17, 2016
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IFAT

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CONEXPO-CON/AGG 2017

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