

# InfraStructures

CONSTRUCTION • PUBLIC WORKS • NATURAL RESOURCES

Volume 22 • Number 4 • April 2017 • *English Edition*





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**Volume 22 Number 4**  
**April 2017**

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

The cost of a subscription for either edition for one year is \$50 for Canadian residents and US\$75 or €75 for U.S. and overseas.

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Publications Mail Agreement #40052183

## A Brief Word...

*If you had any doubts about the arrival of spring, then the success of CONEXPO-CON/AGG would be about the best you could have.*

*April is here along with rain and half loads, mud and survey tape. By now you will have a passing understanding of the Federal Budget, and how new government policies at all levels are impacting your routine.*

*So what will be your Magic Money Spinner this year? Perhaps a unique new machine, a reorganization and new staff, or a long awaited contract has arrived.*

*It may also be less pleasant, perhaps, that a major project has been postponed or a long-standing competitor has succumbed to the pressures of our "New Economy".*

*As we emerge from hibernation, don't be caught not knowing what is happening under your nose. Turn to InfraStructures, as you always do, to inform and educate you on the trends in your industry.*

*This issue will be full of news from Las Vegas and hints of things to come right here on our own patch, both in the field and at the many shows to come. If you didn't get to LV, perhaps a trip to Toronto for the NHES will be an opportunity to check out new innovations and technologies.*

*Here's hoping you will blossom like the long awaited spring flowers that will soon be sprouting.*

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On the cover: InfraStructures magazine is not only about heavy construction equipment. Small, specialized machines are also used on almost all kinds of projects.



## ENERPAC INTEGRATED SOLUTIONS CHANGES NAME TO HEAVY LIFTING TECHNOLOGY

For 20 years Enerpac Integrated Solutions have been proud to enable customers to rise to their challenges. However, Integrated Solutions did not truly represent who and what they are. Therefore, they are changing their name to Enerpac Heavy Lifting Technology. This new name better represents the safe, innovative, heavy

lifting solution that they provide their customers.

Enerpac Heavy Lifting Technology's ambition is to be the world's leading supplier of heavy lifting equipment and solutions. Today, customers count on Enerpac to own the entire challenge of delivering the right equipment for the safe, efficient execution of large, complex lifts through:

- Proven expertise in hydraulics, electronic controls and steel fabrication.

- Advanced engineering, manufacturing and testing capabilities.
- Doing it all in-house for maximum quality control, responsiveness and accountability.

"In our work with customers around the world, we're seeing the stakes raised in terms of the size and complexity of lifts," said Jeroen Naalden, Global director, Heavy Lifting Technology. "Everything we're doing is about strengthening our ability to address these challenges – whether it involves helping them scope the right equipment, designing and building a custom solution, or providing on-site support and training."

"We take our customers through an interactive process to solve heavy-lifting challenges in almost any environment, anywhere," said Mart Hinnen, Plant manager and head of Engineering, Heavy Lifting Technology. "Collaborating with customers on tough projects and seeing them all the way through to success is what inspires us every day."

Source: Enerpac Heavy Lifting Technology

## B2W SCHEDULE STRENGTHENS "ONE" PLATFORM

B2W Software, a leading provider of heavy civil construction management software, introduced its B2W Schedule solution at CONEXPO/CON-AGG 2017. As an addition to the company's unified ONE Platform for estimating, operations and business intelligence, B2W Schedule enables contractors to manage resources more effectively across jobsites and over time, by centralizing the scheduling and dispatching process and connecting it with field management and maintenance workflows.

"Advanced analysis and scheduling functionality, drag-and-drop simplicity and real-time connectivity across the enterprise are the key advantages with B2W Schedule," according to B2W Software CEO Paul McKeon. "This new element empowers employees to communicate and collaborate to optimize crews and equipment."

B2W Schedule provides customized daily or longer-term views of resources. Scheduling – including submission and fulfillment of resource requests – can be completed in real time, with role-specific access and visibility across the enterprise via mobile tablet or desktop devices. The



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system intuitively identifies resource needs and conflicts, and presents solution options. A Map View incorporates GPS and telematics data to assist with scheduling and logistics.

B2W Schedule is unified with B2W Software elements for field tracking and equipment maintenance. Each of the elements utilizes and updates one common operational database that includes employee, equipment and job information. The platform approach ensures real-time accuracy and eliminates redundant data entry.

B2W Software also highlighted B2W Inform at the show – a mobile-first solution for data capture and analysis that was added to the ONE Platform in 2016. Contractors throughout North America use B2W Inform to create configurable electronic forms, replace inefficient paper-based processes, and mine data to generate reports, dashboards and immediate alerts.

Additional elements within the ONE Platform include B2W Estimate for estimating and bidding, B2W Track for field tracking and analysis, and B2W Maintain for equipment maintenance and repair. The ONE Platform allows contractors to leverage a single source for operational data, common user interfaces and a logical flow of data across the elements in real time. Full mobile functionality, including a unified B2W Mobile App enables anytime, anywhere access to the operations platform elements on Apple or Android tablets.

“Our platform approach provides substantial advantages over trying to integrate disparate software solutions for individual workflows,” explains Mr. McKeon. “Unified software elements connect people, workflows and data to enhance efficiency, data-driven decision making and project outcomes.”

Source: B2W Software

#### **KOBELCO USA NAMES GUYDROLIC AS DEALER IN QUEBEC**

KOBELCO Construction Machinery USA continues to expand representation in the North American market by adding Guydrolic, Inc. to its growing dealer network. Guydrolic will represent the full line of KOBELCO excavators in Normandin, Quebec.

“We have been familiar with the KOBELCO product line for many years and we

know firsthand the strong reputation that the brand carries,” states Guy Turcotte, president of Guydrolic, Inc. “KOBELCO excavators are well known for being robust, reliable machines and we’re excited to now offer them to our customers.”

KOBELCO has long been recognized for its world-class line of excavators. In order to continuously improve its singular product line, the team of KOBELCO engineers and field experts dedicate substantial time and effort into the research and development of today’s leading technologies and machinery. KOBELCO ensures the delivery of excavators that can withstand the day-to-day rigors of demanding jobsites, while providing operators with all the production and comfort features required for a profitable day’s work.

The staff of Guydrolic will be working closely with KOBELCO to gain the required sales and product support training to deliver on the KOBELCO promise of customer satisfaction. Guydrolic will provide professional sales and service support

on all KOBELCO excavators in Quebec’s Saguenay–Lac-Saint-Jean region.

Source: KOBELCO Construction Machinery USA

#### **FPT INDUSTRIAL TO SUPPLY ENGINES TO LIEBHERR MACHINES BULLE**

FPT Industrial has signed a long term partnership with Liebherr Machines Bulle SA to supply its Tier 4 final (T4f)/Stage IV (EU4) version of the NEF series N45 engines equipped with HI-eSCR.

This N45, a T4f/EU4 compliant 4.5 l I4 engine is specifically designed for Liebherr and provides a power of 130 kW (174 hp). It features state-of-the-art technologies, such as the latest generation Common Rail injection system, and is characterized by high power and high torque, especially at low rpm, ideal to increase productivity in construction applications.

To ensure compliance with emissions levels, the engine uses selective catalytic reduction SCR to reduce emissions of NOx. It does not need an exhaust gas recircula-

## **New Plate Compactor Offers Easy Loading Without Support Equipment**

BOMAG single direction vibratory plate compactors are a contractor’s indispensable tools for day-to-day use in soil and asphalt repair and maintenance compaction applications. Weighing just over 46 kg, the new BOMAG BVP 10/30 compactor is the lightest single direction vibratory plate in its class and features a balanced lifting point, so it can be quickly loaded and unloaded from the transport vehicle without any support equipment.

The BVP 10/30 walk-behind compactor boasts a compact design with its 300 x 508 mm plate width and length, making it perfect for compacting confined spaces and into corners. The machine generates 10 kN of centrifugal force at working speeds reaching 25 m/min, making it the right plate for landscaping and earthworks contractors, building contractors and maintenance crews. By equipping the plate with its optional vulcolan mat, the BVP 10/30 is the compactor of choice for setting paving stones.

Several features of the new BVP 10/30 plate compactor serve to enhance safe machine operation. Its hinged handle features rubber mounts to effectively minimize vibration transmitted back to the operator’s hands and arms for more comfortable operation. The V-belt guard fully encloses the belt’s movement to protect the operator from injury. Compactor lifting handles help to advance safe loading and unloading from the transport vehicle.

Source: BOMAG Americas, Inc.





tion (EGR) or a diesel particulate filter (DPF). For countries requiring the adoption of filters, a DPF can be added, which makes the solution Stage V ready.

FPT Industrial was not only chosen for its excellent products, but also for its ability to provide the Liebherr Machines Bulle with tailor-made engines.

Based on the requirements provided by Liebherr and FPT Industrial's experience and know-how, the above mentioned features make the specifically developed engine stand out for its efficiency, robustness and quality, allowing it to achieve high performance in terms of load response, maximum torque and power. Meanwhile, the engine also delivers low fuel consumption and long maintenance intervals to ensure extremely low operating costs.

Founded in 1949, Liebherr is not only one of the world's largest manufacturers of construction machinery, but also an expert and market leader in many other industries. The company's 11 divisions cover numerous industry segments, including mining, high-performance cranes, concrete technology, machine tools and automation systems, aerospace and transportation systems, domestic appliances, and hotels. The components division comprises 20 product lines from the areas of mechanical, hydraulic and electrical drive system and control technology, which are produced in 10 production sites worldwide. Diesel engines were added to the product portfolio in 1984.

Source: FPT Industrial

#### FIRST FEMALE RECEIVES HHCA YOUNG LEADER AWARD

On February 23, 2017 the Hamilton-Halton Construction Association (HHCA) presented Amanda Convery of Lancaster Group with the Young Leader Award at their 97<sup>th</sup> Annual General Meeting and Dinner.

Ms. Convery has always had a passion for construction. Introduced to HVAC at the age of 14 when her father opened his own shop, she went on to become a CoQ Sheet Metal Worker and holds a G2 Gas Certification. She has worked in the field and also

as a Sheet Metal instructor at Mohawk College's Stoney Creek Campus.

Committed to helping others, Amanda Convery participated in the development of the "Advance Women in Trades" website with the YWCA; a site that offers employers tools to facilitate the recruitment, retention and advancement of women in trades. Amanda was one of the keynote speakers at the launch event and shared her experiences working on the tools in a male-dominated industry.

Ms. Convery is also actively involved with the HHCA Women in Construction Group leading the fundraising efforts for the HHCA's Legacy Build 2020 with Habitat Hamilton.

"I'm extremely honored to receive this

award," she said during her acceptance address. "I've always been motivated by recognition from my supervisors, but never imagined I might be recognized for the commitment and dedication that I have put into my career and my success."

Amanda Convery is an estimator with the Lancaster Group in Hamilton. The Young Leader Award was sponsored by HHCA member firm Arthur J. Gallagher Canada Limited. Young Leader Award recipients are under the age of 40 and employed by an HHCA member firm.

Established in 1920, the Hamilton-Halton Construction Association has been serving local Industrial, Commercial and Institutional (ICI) construction firms for over 95 years. It is committed to helping its

## New Vortech Rubber Tracks for Compact Tracked Loaders

Bridgestone Corporation debuted its new Vortech line of rubber tracks at CONEXPO-CON/AGG 2017 in Las Vegas.

Designed specifically for compact tracked loaders, Vortech rubber tracks feature a responsive track design and powerful H-shape tread pattern to deliver both workability and a smooth driving experience.

The Vortech line was designed as a result of Bridgestone's continued focus on knowing the customer best and recognizing pressing customer needs. The all-new Vortech rubber track system from Bridgestone reflects customer desire for improved driver efficiency and workability in compact tracked loader applications.

By optimizing the internal structure and tread pattern of the tracks, Vortech lowers the bending resistance\*<sup>1</sup> that occurs when rubber tracks rotate, enabling more fluid vehicle movement. As a result of this unique design, Bridgestone Vortech rubber tracks contribute to the driving efficiency improved by 26%\*<sup>2</sup> and subsequently more fluid vehicle movement.

Vortech rubber tracks from Bridgestone also employ a new H-shaped tread pattern to expand the edge portion of the tracks, which grips the ground, and provides higher levels of traction for powerful performance. Vortech tracks help improve driving performance in compact tracked loaders in a variety of environments – from gravel to sediment, and other ground types.

Bridgestone Vortech rubber tracks also utilize an ideal tread pattern and tread positioning to achieve smoother driving, which helps reduce fatigue to the vehicle operator resulting from vehicle vibration.

Bridgestone Vortech rubber tracks will be available in 450 mm-wide sizes.

\*<sup>1</sup> Resistance that occurs when rubber tracks bend around the wheels that their internal sides come in contact with during rotation.

\*<sup>2</sup> Based on tests performed by the Bridgestone.

Source: Bridgestone Corporation



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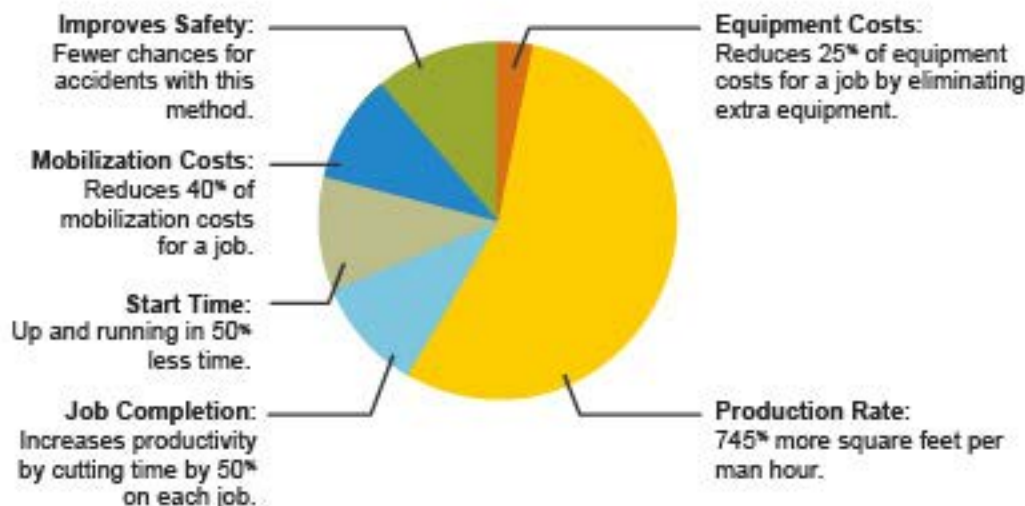
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Optional Auto II Steering System® utilizes angle sensors to automatically correct the straightness of the pile to within 1° of plumb.

### **AUTO II STEERING SYSTEM®**

The Sonic SideGrip® vibratory pile driver substantially improves job efficiency while reducing extra costs. The side-gripping jaws working in unison with the Auto II Steering System allow for increased maneuverability, driving and capability.

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members build their businesses; providing resources, keeping them up to date on legislative changes, offering educational opportunities and a chance to network with their peers. Each year it aims to improve its program of services, continuously realigning its offering to meet the specific needs of its members.

Source: Hamilton-Halton Construction Association

#### **INTRODUCING THE NEW GENERATION HARDOX® WEAR PLATE FOR DUMP BODIES**

Hardox 500 Tuf combines the best properties from Hardox 450 and Hardox 500. The result is a wear plate that has no real competition on the market.

It is tough enough to perform as a structural material in heavy-duty dump bodies, containers and buckets. Superior wear and dent resistance gives increased service life and the ability to withstand heavy impact.

WearCalc and TippCalc calculations based on sliding wear with granite indicate that Hardox 500 Tuf has 85-100% longer service life compared to Hardox 400.

Working conditions where Hardox 500 Tuf will excel include the loading and unloading of heavy and sharp rocks in quarries and mines, handling large and heavy steel scrap, and in demolition when pieces of concrete containing rebar are loaded or dropped into dumpers.

Hardox 500 Tuf has a guaranteed impact energy of 27 J at -20°C and a typical value of 45 J at -40°C. It has an unusually narrow Brinell hardness window of 475-505 HBW.

Source: SSAB

#### **CONTINENTAL SIGNS COLLABORATIVE AGREEMENT WITH CATERPILLAR**

Continental and Caterpillar Inc. have signed an agreement to equip Cat Off-Highway-Trucks (model series 770 to 775) with Continental RDT-Master tires in sizes 18.00R33, 21.00R33 and 24.00R35. The agreement also calls for the companies to collaborate on designing new tires for 2 other Cat products: Medium Wheel Loaders and Articulated Dump Trucks.

"We are happy to announce the cooperation with Caterpillar on top of the launch of our new tire lines in the Mining and Construction segment. This cooperation underlines the significance that Caterpillar places in innovative technology, the customized solution approach and leading edge technology that Continental now of-

fers in this new industry segment," stated Jan Skaletz, Key Account manager for OTR tires.

Continental's RDT-Master tires feature all-steel radial casings and belt packages for cut and impact resistance that provide outstanding traction in all directions. They will be listed on Caterpillar price lists starting in 2017 and can be specified by Caterpillar dealers and end users as first fit tires on new equipment orders.

As part of the agreement, Caterpillar will equip Cat Off-Highway-Trucks with Continental RDT-Master tires.

Continental develops intelligent technologies for transporting people and their goods. The Tire Division currently has more than 24 production and development locations worldwide. The broad product range and continuous investments in R&D make a major contribution to cost-effective and ecologically efficient mobility.

Source: Continental Commercial Specialty Tires

#### **JOHN DEERE EXTENDS IN-BASE JDLink™ ON CONSTRUCTION AND FORESTRY MACHINES**

In an effort to better meet the needs of today's customer and the evolving jobsite, John Deere is extending its JDLink™ in-

base subscription service from 3 to 5 years on construction and forestry machines. The update is a result of increased customer interest in technology and the integration of 4G hardware in John Deere equipment. The extension also allows the manufacturer to stay connected with machines beyond the warranty period and unlocks additional functionality and value for customers.

JDLink is a telematics system designed to remotely connect owners and managers to their equipment, and to provide alerts and machine information, including location, utilization, performance and maintenance data to manage where and how equipment is used. The JDLink equipment management solution is the heart of John Deere WorkSight – a technology tool that helps customers be more productive, avoid downtime and keep costs low with advice and support from a John Deere dealer.

Equipment covered in this extension includes backhoe loaders, crawler dozers, excavators, motor graders, scraper systems, tractor loaders, wheel loaders and many other machine forms. Previously, only heavy equipment had 5 years in base. A 3-year option will remain for skid steer loaders and compact track loaders.

Source: Deere & Company

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## **Trelleborg Introduces Line of Pneumatic Tires to North American Market**

Full range supplier of premium tires Trelleborg Wheel Systems introduces its line of pneumatic tires to the North American market. A selection of tires from the pneumatic line - the ERD Series, the ERL Series, the SK Series, and the TR Series - were first shown at CONEXPO-CON/AGG 2017.

Jean-Paul Mindermann, president of Trelleborg Wheel Systems Industrial and Construction Tires operations, said: "We're excited to launch this pneumatic line in the U.S., completing our range and enabling us to bring the U.S. market the same successes we've seen in Europe."

A highlight of Trelleborg's pneumatic line is the Earthmover Radial Series (ERL) for use by loaders and graders. No matter the terrain or weather conditions, these tires offer trusted quality and reliability. Designed to increase productivity and reduce fuel consumption, tires in the ERL range will reduce operating costs.

Source: Trelleborg Wheel Systems







# H<sup>3</sup>

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# Haver & Boecker Hydro-Clean 1000 Wash Plant Offers Convenience and Improved Productivity

Haver & Boecker, a leading equipment manufacturer and solutions provider in aggregates and mining applications, introduces the skid-mounted Hydro-Clean™ 1000 Wash Plant as a complete solution. In addition to a Hydro-Clean 1000 washing system combined with a Tyler L-Class vibrating rinse screen, Haver & Boecker now offers semi-portability by mounting the complete system on a custom skid structure. The opportunity to purchase the 3 components together saves operations months of time they would have spent on designing and building a skid structure for a wash plant. The new package delivers maximum serviceability in a small footprint.

"We're always looking for ways to solve our customers' problems and improve their productivity and efficiency," said Karen Thompson, president of Haver & Boecker Canada. "By offering the Hydro-Clean 1000 Wash Plant, we're saving producers from spending extensive time on engineering and manufacturing a structure for a wash plant. This gives them an oppor-

tunity to focus their time and money on improving profits elsewhere in their operations."

Haver & Boecker combines the Hydro-Clean 1000, a single-deck, linear-stroke, 1.8 x 4.9 m Tyler L-Class horizontal vibrating rinse screen and a skid structure to create the compact wash plant. The system processes as much as 200 t/h of sellable product with its short retention times; using minimal water and power. During the cleaning process, the washed material works its way down the HC1000's drum and exits onto a discharge conveyor that leads to the L-Class wash screen. The vibrating screen



removes any remaining dirt or clay still on the stone as it fractionates the material. Haver & Boecker engineers drew on their extensive experience to design and build a skid structure perfectly suited for the semi-portable system.

Taking feed material as large as 15 cm into its 1.0 m vertical drum, the Hydro-Clean 1000 employs 2,000 psi high-pressure nozzles, rotating at 90 rpm, to remove silt and clay particles as small as 63  $\mu$  from mineral mixtures.

The wash plant's other major component, the L-Class vibrating screen, uses a double-shaft overhead drive system, with direct-mounted motors, to provide multiple speed and stroke combinations in a compact design. With a horizontal screen, material spends more time on the deck for optimal cleanliness.

The HC1000 Wash Plant includes serviceability features for maximum convenience and safety. Haver & Boecker manufactures the plant with stairs, eliminating the dangers of carrying parts and tools up ladders. In addition, mechanics can easily use the plant's catwalks and platforms to reach service points, such as spray nozzles.

Haver & Boecker can engineer wash plants to customer specifications by, for example, including a different size or type of vibrating screen, more decks or a different Hydro-Clean model.

Source: Haver & Boecker Canada

## Compact Tandem-Drum Models from Hyundai

While the Hyundai tandem-drum roller models are primarily designed for asphalt paving applications, contractors also may use these compact machines for soil compaction. The tandem-drum rollers feature front and rear scrapers to keep the drums free of material buildup. They also provide (208 l) water-spray systems that can sprinkle both the pavement surface of the drums, with operator-adjustable sprinkling intervals. Each model offers the largest drum in its weight class for optimum compaction results.

The new Hyundai HR26T-9 model has an operating weight of 2,900 kg and drum width of 1,200 mm, with a working width of 1,250 mm. It is powered by a Tier 4 interim-compliant Deutz D 2011 L2i diesel engine rated at 31 hp.

Source: Hyundai Construction Equipment Americas, Inc.





# BAUER BG 46 Demonstrates Top Performance in Toronto

With over 2.7 million inhabitants, Toronto, Ontario, is the biggest city in Canada. The Greater Toronto Area (GTA) has grown to over 6.4 million people. Its role as the country's major economic center and one of the biggest financial hubs in the world as well as its array of cultural offerings make the city on Lake Ontario an ever-growing metropolis. One after the other, high-rise buildings are emerging in the city's skyline. The renowned and award-winning company Tribute Communities, for example, is currently building 3 multi-story apartment buildings on a 2.42 ha plot – one with 26 floors, one with 34 floors and one with 43 floors. A total of around 1,100 apartments will be created as part of this project which goes by the name of "Parkside Square".

The Canadian Bauer Maschinen client Deep Foundations Contractors Inc. is carrying out the foundation work for the Parkside Square project and in order to install the 28 m deep secant pile wall and 20 m deep single piles has opted for the latest equipment technology from Bauer: the BAUER BG 46, the most powerful rotary drilling rig currently on the market.

"The reason we bought the BG 46 was to enable us to install deeper secant cut-off walls at a good production rate," says Mike Cianchetti, vice president of operations at Deep Foundations. "Currently, with the BG 39s we are able to achieve depths of 38 to 40 m at

1,000 mm diameter, but occasionally we need to use oscillators or torque multipliers to achieve these depths. Now, with the BG 46 we will be able to achieve greater depths, over 45 m, with 1,320 mm casings. All with maintaining a verticality within 0.5%."

The PremiumLine heavy-duty rotary drilling rig, showcased for the very first time by BAUER Maschinen GmbH in spring 2016 at Bauma in Munich, Germany,

features a KDK 550 S rotary head which generates up to 553 kNm of torque. In addition, it is possible to apply a torque of 700 kNm to the casing using a mechanically-mounted torque converter. This allows the drilling rig to insert casings deeper into the ground and to react to unexpected geotechnical conditions better than any other machine. To cope with the enormous forces, Bauer relies on the extremely robust V-kinematics for the mast attachment which have proven themselves over many years.

Moreover, the machine, which is over 33 m tall, offers a flexible mast concept that enables the advance system to be optimized specifically for the particular process or application. The optional single-layer piggyback winch allows the complete pulling force of 450 kN to be used in full without reduction in any working situation. Thanks to the high-performance base carrier and the dual motor concept, the winch still has a lifting speed of 50 m/min even with a load of 300 kNm, thus guaranteeing a highly efficient drilling operation.

In the development of the BG 46, there was special focus on low noise emission and low fuel consumption through an individual consumption control. This was implemented through the Energy-Efficient Power (EEP) system. Despite considerably greater torque and drilling performance, the fuel consumption could be reduced



significantly compared to the predecessor machines.

With regard to safety as well, the BG 46 has been equipped in accordance with the latest Bauer-standards: warning flash lights have been fixed such that they are at the eye level of the site personnel. Cameras cover areas that are not directly in the operator's field of vision. Safe rig assembly was also given due consideration. Handling of heavy components, such as bolts, is omitted owing to the use of hydraulic connection elements, e.g. on the rotary drives and supporting trestle.

Deep Foundations Contractors Inc. has been a loyal client of BAUER Maschinen GmbH for many years now.

"In 2000, the company was one of the first in North America to own a hydraulic drilling rig. Since then, its equipment fleet has grown significantly," reports Ray Kemppainen, branch manager at ECA Canada, dealer and service partner of BAUER Maschinen GmbH for the U.S. and the Canadian East Coast.

Deep Foundations Contractors Inc. currently owns 17 Bauer and 7 Klemm machines in total. With more than 250 employees, the company constructs pile foundations and excavation pit retaining structures for various residential, industrial and infrastructure projects across Canada.

Source: BAUER Group

## Brokk Acquires Aquajet Systems

Brokk, the world's leading manufacturer of remote-controlled demolition machines, recently acquired Aquajet Systems AB, the world's leading manufacturer of hydrodemolition robots. The acquisition expands the application solutions offered by Brokk in the construction and demolition industry. Aquajet Systems specializes in concrete renovation by using extremely high-pressure water jets to remove concrete without harming the underlying rebar or causing microfracturing. The innovative machines are ideal for a variety of selective demolition applications, including bridge and road repair.

"We're pleased to welcome Aquajet Systems into the Brokk family," said Martin Krupicka, Brokk Group CEO. "This offers us the opportunity to better serve our customers in the concrete demolition and renovation business with a wider breadth of safe, productivity-enhancing technologically advanced solutions."

The Holsbybrunn, Sweden-based company shares Brokk's vi-

sion for continuous product development and global innovation, and has enjoyed strong upward sales growth over the last several years.


"We admire Brokk's reputation for manufacturing high-quality, productive equipment for customers around the world," said



Roger Simonsson, Aquajet Systems managing director. "By joining Brokk, we look forward to growing Aquajet Systems' global sales through their existing distribution channels in several regions, in particular the U.S. market."

Aquajet Systems was formed in 1988 and manufactures a full line of Aqua Cutter robots designed for a variety of applications,

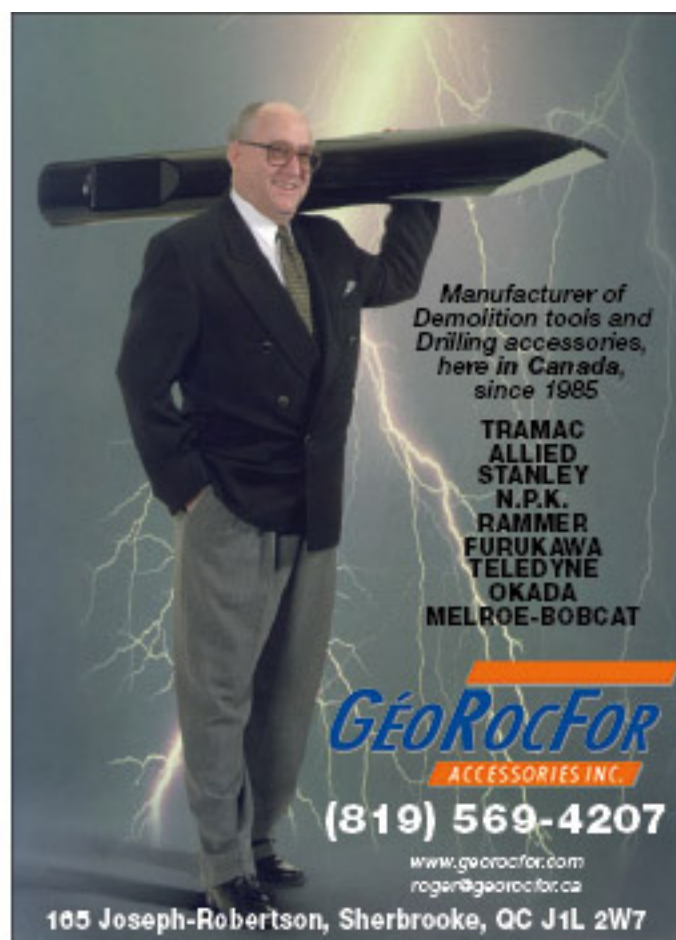
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including bridge and road repair, tunnel repair and nuclear power plant rehabilitation and refurbishment. By varying the flow and pressure of water through the specially designed ceramic nozzles, the machines can easily remove areas of loose, deteriorated or even sound concrete to a predetermined depth.

The robots feature diesel or electric power and are compatible with Aquajet Systems' line of accessories, which include rotolances and circular power heads. The company also manufactures large power packs and mobile water treatment systems.

"Our sales and service team in the U.S. is excited about adding this state-of-the-art hydrodemolition equipment to our product offering. Our existing customer base has already expressed interest in adding Aquajet's unique capabilities to their contracting services," added Peter Bigwood, vice president Sales & Marketing for Brokk Inc.

For the past 40 years, Brokk has delivered over 7,000 demolition machines to more than 100 countries across the world. The addition of Aquajet Systems' hydrodemolition machines and accessories complement Brokk's current line of equipment and extend Brokk's reputation as a leader in the demolition machine industry.

Both companies will maintain current management with the acquisition.

Source: Brokk Inc.

## ALLU Transforms at CONEXPO-CON/AGG

ALLU Group presented at CONEXPO-CON/AGG 2017 its new, customer-focused technology brand: ALLU TRANSFORMER. This positive and radical change reflects the transformation of ALLU screener crusher products and from world-class manufacturer to customer-driven communication and solutions.

ALLU has for many years provided an equipment range that has helped busi-

nesses across the globe with their material handling, separation and sorting requirements. Even with great global success it has been a challenge to clearly communicate the benefits it delivers to the customers.

"Through the rebranding ALLU is now sending a clear and concise message that our equipment is able to transform the businesses of our customers and improve the profitability and value addition in their businesses," says Ola Ulmala, president of ALLU. "We were able to identify that our equipment not only provides solutions that produce higher levels of profitability, but leads to changes that totally transform the way businesses are able to operate. Examples may be 'waste to value'."

Source: ALLU Group



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## Leica Ready Now Offered on John Deere Motor Graders

Leica Geosystems, industry leader in measurement technology, recently announced its Leica Ready machine control kits will now be offered on G-series motor graders by John Deere, a world leader in providing advanced construction products and services.

Leica Ready enables swift and fast installation of Leica Geosystems' Machine Control systems, such as Leica iCON iGG4 Dual GNSS for motor graders. The Leica Ready grader kits are made up of pre-installed cables and brackets, providing for an easier installation of Leica iCON grade solutions.

"Offering such built-in and integrated solutions on John Deere graders brings added value to customers worldwide," says Johan Arnberg, president of the Leica Geosystems Machine Control Division. "Enabling easy access to this technology improves productivity and increases efficiency. We are proud to work with John Deere to help shape the industry."

Leica iCON grade solutions for motor graders offer new site preparation possibilities. The system regulates the elevation and cross slope by means of robust and high-tech sensors. Improving productivity as well as saving material costs, the system is ideal for contractors working in highway construction, site preparation, road maintenance and other public works, and housing and subdivision development. Any construction project where motor graders are used for preparing sub-grade for finished layers can benefit from this technology.

"Building on our position as the customer's grader of choice, we are excited to work with Leica Geosystems and expand our open architecture ready offerings with a new option for our Grade Pro (GP) motor graders," said Domenic Ruccolo, senior vice president, sales and market-



ing, Worldwide Construction & Forestry Division. "The grade control ready option comes factory-equipped with everything needed to quickly install a state-of-the-art Leica iCON grade solution, eliminating the need for welding and splicing, along with cutting 3D install times in half. We believe customers will be up and running faster with Deere."

Source: Leica Geosystems AG

## GRAMMER's Modular Seats Exhibited at CONEXPO-CON/AGG

GRAMMER, a manufacturer of premium off-road equipment seats, exhibited its cutting-edge, modular seats at CONEXPO-CON/AGG in Las Vegas. GRAMMER also displayed the award-winning Genius Cab for the first time in North America. GRAMMER products provide durable, hardworking comfort for an improved ride in the most demanding conditions. Applications for GRAMMER seats include agricultural, turf care, construction, material handling, marine and on-road vehicles and equipment.

The company showcased several of its newest innovative, modular seats. Some of the advanced features include air suspension, fully automatic adjustment to the operator's weight, and active seat climatization. Engineered and tested to minimize whole-body vibration exposure, the seats have optimized suspension to help prevent injury and low-back pain.

"Every application and operating environment has different requirements for suspension to reduce operator exposure to whole-body vibration," said Fred Schmidt,

sales group manager of GRAMMER.

"The seat is typically the most cost-effective element of the equipment's overall suspension. An optimized, ergonomically engineered seat helps prevent injury and low-back pain."

CONEXPO-CON/AGG attendees could also check out the award-winning Genius Cab. The Genius Cab was developed through a collaboration of component manufacturers, OEM suppliers, scientific institutes, designers, industry associations, rental companies and experienced operators. It is equipped with an innovative GRAMMER seat that offers electronically adjustable comfort features with memory function. The seat has an integrated multifunctional armrest with 12" touch display for controlling all vehicle and seat functions. The seat links to the equipment's CAN-bus system and automatically adjusts to each operator for maximum comfort.

"The focus of the development work for the Genius Cab was human-centered



design," says Hubert Wittmann, senior product manager, strategic product planning at GRAMMER. "The emphasis was on meeting driver needs with intuitive, ergonomic control and operation of all vehicle and comfort functions using a multifunctional armrest and multi-touch display."

Source: GRAMMER



# First Tidal Energy Turbine with Lockheed Martin Technology Deployed Off Scotland Coast

Atlantis Resources Limited has deployed the first AR1500 tidal energy turbine with new Lockheed Martin technology off the coast of Scotland. The installation is the latest development in the MeyGen project designed to harness the motion of the tides to provide clean, sustainable, predictable power for up to 175,000 homes in Scotland.

Under contract and in partnership with Atlantis, Lockheed Martin designed the 1.5 MW AR1500 turbine. In addition to system design, Lockheed Martin developed, manufactured and delivered 2 innovative subsystems, the Yaw Drive System (YDS) and the Variable Pitch System (VPS). The 2 elements enable the turbine to rotate autonomously around its base, so it always faces into the tidal flow. The pitch angle of the turbine blades also adjusts to optimize the power generation in a given tidal stream.

Installation and connection of the



AR1500 was completed with record-breaking efficiency in less than 60 minutes, representing a significant time reduction compared to most similar systems. The operation marks the first time a tidal turbine has been installed and connected to the shore instantaneously.

"Tidal turbines must be highly reliable and resilient to withstand and operate within the tough environment of a sea

floor," said Frank Armijo, vice president of Lockheed Martin Energy. "These design requirements are similar to the reliability and durability needs of many of our aerospace programs. With innovations in advanced manufacturing and materials, and experiences gained in the design and production of undersea systems, space projects and aeronautics, we're now helping to make tidal energy more reliable and effective."

Tidal energy is produced by the surge of ocean water during the rise and fall of tides. Submerged rotors harness the power of the ocean currents to drive generators, which in turn produce electricity.

The MeyGen project is currently the largest planned tidal energy project in the world. The site, in the Pentland Firth, just 2 km from Scotland's northeast tip, covers some of the fastest flowing waters in the UK. Atlantis has a goal to deploy nearly 270 turbines to generate about 400 MW of energy.

In 2013, Lockheed Martin and Atlantis entered into a teaming partnership to develop technology, components and projects in the tidal power sector on a global basis, beginning with the AR1500.

Lockheed Martin Energy is a line of business within Lockheed Martin that delivers comprehensive solutions across the energy industry to include demand-response solutions, energy efficiency, energy storage, nuclear systems, tidal energy technologies and bioenergy generation.

Source: Lockheed Martin

## Premiere of the "Genius CAB" in North America

The lighting and electronics specialist HELLA presented its comprehensive product range for the construction and mining industry at CONEXPO-CON/AGG. One of the highlights of the company's exhibits was the "Genius CAB", which was developed by industry suppliers and scientists.



The "Genius CAB" contains innovative components from all involved association partners that set standards on the international markets with respect to safety, ease of use, operating comfort/convenience, maintenance and design and was developed specially for original equipment manufacturers operating in the field of construction machines and agricultural technology, as well as manufacturers of industrial forklift

trucks and floor conveyors. In the specially conceived "Genius CAB" all partners contributed their core competencies, showing very clearly how cooperation can design more efficient systems. HELLA contributed the LED work lights, the signature light, the interior lighting, the radio remote control to unlock the door, the accelerator pedal and the rain/light sensor.

Source: HELLA, Inc.

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# Goodyear Helps Elevate Construction Productivity

The Goodyear Tire & Rubber Company demonstrated its commitment to helping construction operations elevate their productivity while lowering their operating costs during CONEXPO-CON/AGG, last March.

Goodyear displayed a number of trusted products at its booth, including:

- The Goodyear TL-4A, which features an optimized tread pattern for versatility and traction in severe conditions.
- The Goodyear GP-4D, a high-traction, deep-tread tire for articulated dump trucks that features a non-directional tread design for enhanced traction; centerline riding lugs for long wear and a smooth ride; and more.
- The Goodyear Armor Max Pro Grade MSD, which targets construction trucks and features a rugged tread design for enhanced on- and off-road traction; a cool-running base compound; and more. The tire is available with Goodyear's DuraSeal Technology, which helps seal nail-

hole punctures up to 6 mm in diameter in the tire's repairable tread area.

During CONEXPO, Goodyear discussed the comprehensive support that it provides to construction companies, including an international distribution network, an integrated supply chain, and field sales and consultation teams.

Reliable services are another pillar of Goodyear's productivity-enhancing, cost-reducing approach. These services include expert on-site support in the form



of consultations, site audits, tire surveys and more – all designed to help construction companies optimize the performance of their tires.

## Increased Capacity and Maintenance Friendliness for Aggregates Operators in Canada

The new Metso Nordberg® NP20™ series impact crushers developed in tight collaboration with Hewitt Equipment Ltd. and Demix Agrégats ensure enhanced capacity and maintenance friendliness.

In January 2017, Metso delivered 2 new NP20™ impact crushers to Demix Agrégats' plant in Laval, Quebec. Metso and Hewitt Equipment Ltd. began the first discussions and studies concerning Demix's new plant project in 2014. In 2016, this close collaboration led to an order for several Metso machines and to the birth of the NP20™ model. The order was booked in Metso's first-quarter 2016 orders received.

"The NP20™ is the third machine of the renewed Metso Nordberg Series. It will replace our largest secondary impact crusher, the NP1520™, and, like its predecessors, is optimized for use both in secondary and tertiary applications," says Vincent Schmitt, product manager for Metso's impact crusher range.

Demix Agrégats, a division of CRH Canada Group Inc., is a leading aggregates

producer in the greater Montreal area, contributing to large infrastructure projects in the region, as well as supplying stone and gravel to the commercial, industrial and residential sectors. In addition to the 2 new NP20 crushers, Demix has ordered various Metso equipment for a project currently underway in Laval, including a C150 jaw crusher with an MB432 hydraulic hammer, a CVB202 for primary crushing and screening, two TS5.3 screens, as well as a sand washing screw and several Metso feeders.

According to Brian Husk, Distribution Business manager at Metso, and Paul Davignon, Crushing Process specialist at Hewitt, the NP20 development has been a real win-win-win project. Demix was impressed by the maintenance-friendliness of the NP15 model, but needed higher capacity. Studies and collaboration between



the parties provided the required information and resulted in the development of a new model. Today, all 3 companies have reached their target.

"Developing a new crusher in just 8 months has been an exciting challenge. Thanks to our knowledge and experience from previous generation machines – and the involvement from the whole team – this project has been a great success," concludes Vincent Schmitt.

Source: Metso



## Next-Generation Halo™ Safety System Launched at CONEXPO-CON/AGG

In addition, Goodyear highlighted its extensive range of management tools, including EMTrack, an exclusive performance monitoring system that provides custom reports based on tire tread depth, tire inflation and other important measurements.

Goodyear also demonstrated its Tire Trac online commercial truck tire management tool, which helps construction operations monitor commercial truck tire installations, the performance of these tires in the field and other key metrics. Tire Trac also can help end users identify truck tire maintenance opportunities.

And CONEXPO-CON/AGG attendees had an opportunity to look at Goodyear's Truck App, which contains comprehensive information about all of the Goodyear commercial truck tires and retreads that are available for construction applications.

Source: The Goodyear Tire & Rubber Company

ILLUMAGEAR, whose mission is to illuminate people working in high-risk environments, making them safer and more prepared, launched its next-generation Halo™ at CONEXPO-CON/AGG.



The durable, lightweight Halo™ is a cord-free 360° Personal Active Safety System that attaches to any standard hard hat and produces a ring of light around the wearer, enabling him or her to see and be seen in all directions at all times. Tough enough to survive in rough environments, the Halo is the ideal safety and task light, visible over a quarter mile away while illuminating the wearer's task area out to the visual periphery.

Source: ILLUMAGEAR



## Atlas Copco Rolls Out First Product at New Rock Hill Plant

Atlas Copco has produced its first piece of equipment, an XAS 185 portable air compressor, at its new production facility in Rock Hill, South Carolina.

Its construction, which began in January 2016, included lean manufacturing features to enable efficient and flexible processes that are sustainable for the environment. The compressor is the first product of Atlas Copco's wide range of equipment, including generators and stationary compressors that will be produced at the plant, which officially opened in February 2017.

"We have a continued commitment to the U.S. market," said Scott Carnell, Atlas Copco U.S. president. "This commitment is more than our ongoing innovations in equipment design. It also involves being close to our customers, and our new facility helps us achieve that."

Atlas Copco built the facility to enhance its support for the North American construction market. The 16,700 m² plant is Leadership in Energy and Environmental Design (LEED) certified and serves as the production and assembly facility for Atlas



Copco's North American Construction Technique division.

Several Atlas Copco team members commemorated the event by signing the compressor as it exited the production line. The compressor will be a reminder of the hard work and dedication the entire Atlas Copco team puts forth to bring sustainable productivity to customers.

Atlas Copco's new building is in one of Rock Hill's newest mixed-use developments, Riverwalk Business Park, and replaces the company's original facility in Rock Hill.

Source: Atlas Copco Construction Equipment USA

## Customized Solutions for Rough Terrain

The Keeyask Generating Station in Manitoba, Canada will be a 695 MW hydroelectric generating station providing clean, renewable energy. An average of 4,400 GWh of electricity each year will be supplied to both Canada and to the United States. The facility will include a powerhouse/service bay complex on the north side. The Seven Bay Spillway is located on the south side, with 1.5 km between the 2 sets of structures.

The generating station is located in a remote location approximately 725 km north of Winnipeg on the lower Nelson River and getting material and support to the site is difficult. It is also difficult terrain and the rock elevations vary substantially. Due to the size of the project, the amount of equipment required at the same time is a challenge. Additionally, the job requires a complex 3D design of the draft tube formwork. Special quality requirements include fair-faced concrete and SCC mix design throughout the project. All forms

are designed for a full liquid head concrete pour pressure. To work under these conditions, the contractor hired 2 Doka field service technicians and 1 Doka site engineer to stay at camp on a 21 day-in/ 7 day-out rotation.

Doka was chosen as the formwork supplier due to their strong role in working with project time constraints. Specialists

from Doka's North America Major Account and Project team and Western Canada worked tirelessly for months, using 3D printed models and state-of-the-art 3D CAD programs to put together a quotation package that went above and beyond the competition. The D22 rollback feature was an advantage, since it allows for quicker resetting times. With its ease of use, form-



## AGF Introduces the New Special Projects Group

Furthering its unique position in the access industry, privately-owned AGF Access Group, Inc., announced at CONEXPO-CON/AGG 2017 the formation of the "Special Projects Group" (SPG). The SPG was



created to provide engineering consulting services for major industrial and infrastructure projects, focusing on solutions for complex projects, such as nuclear power plants, hydro electric dams, bridges, chimney/stacks/silos and more across the globe.

"Through the creation of the SPG, we

are able to provide a specialized approach to major infrastructure development, namely engineering and project management skills for complex access jobs, anywhere in the world," said Vincent Dequoy, president, AGF Access Group, Inc. "By combining the expertise of AGF Access Group manufacturers and the field experience of its rental companies, SPG will provide its customers with all the ingredients for a turnkey and tailor-made access solution."

The SPG is the newest addition to the AGF Access Group, Inc. family, a Quebec-based conglomerate that specializes in design, engineering, manufacturing, sales, rental, service, installation, dismantle and training of innovative access solutions. The company targets the construction, restoration and maintenance of residential, commercial, industrial, institutional and power generation sites and buildings. AGF Access Group, Inc., has executed many high-profile projects, including the New



York World Trade Center and The Ohio River Bridge ("Project of the Year" award at the 2016 Access, Lift & Handlers (ALH) Conference and Awards).

Source: AGF Access Group, Inc.



# Articulating Multi-Purpose Truck Tackles Countless Off-Road Applications

work is easily transferred from one area to another when finished on a particular section, meaning less equipment is on site. The formwork provides for worker safety with large work platforms integrated into



the design. The system is efficient through cycling and reuse of equipment.

Source: DOKA

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The new generation ARDCO Articulating Multi-Purpose Truck (AMT) features a modular back-end platform that offers the flexibility to customize the vehicle to suit any work environment, from urban construction projects to extreme off-road jobsites.

Powered by a 250-hp Cummins QSB6.7 Tier 4 final diesel engine, the AMT 600 features selectable 4- or 6-wheel-drive and offers a payload of 20,400 kg.

The 2- or 4-wheel-drive AMT 400

has a 200-hp Cummins and provides a payload of 12,700 kg. Top travel speed for each unit is 37 km/h.

Both models include a Dana 6-speed powershift transmission with twist grip shifter. The AMT 600 features AxleTech rigid planetary axles with driver-controlled differential lock, while the AMT 400 has Dana rigid planetary axles with automatic limited-slip differentials, front and rear.

The AMT features a 2-person ROPS cab that offers the driver panoramic visibility to enhance safety.

Source: ARDCO



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## Caterpillar Offers TrucBrush® to Clear Snow from Trucks, Trailer, and Bus Rooftops

A newly patented attachment to clear accumulated snow from truck, trailer and bus rooftops called TrucBrush® is now available through Caterpillar Inc.'s dealer network. Designed for optimal clearing, the polypropylene-bristled attachment quickly connects to, and is powered by, a front-end loader. The mobile method allows snow service vendors and fleet maintenance personnel to quickly, effectively and safely clear snow off multi-heighted vehicles prior to transit.

"We are proud to offer TrucBrush® through Caterpillar Inc.'s distribution channel as they are global leaders in providing solutions to the transportation and snow management industries," said TrucBrush Corporation vice president Debora Babin Katz, who is also the board chair of the Women In Trucking Foundation and the national Snow & Ice Management

Association's Snow Business magazine editorial advisory group.



In 2016, TrucBrush Corporation was

recognized for its innovative attachment by the Smaller Business Association of New England with a "Rising Star" Innovation Award and the Industry Commitment Award from the national Snow & Ice Management Association for outstanding innovation, support and customer service. TrucBrush® represents an opportunity for snow service contractors to expand their businesses.

"Before we purchased our 3 TrucBrush® units, there was not one TrucBrush® in New York City. Industry standards are constantly changing, and we want to be at the



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## Front Debris Hose Option Available for Elgin Waterless Pelican® Sweeper

forefront of the revolution. But to change, you have to understand your industry, your company and your clients," said Caterpillar/TrucBrush customer Ernest H. Brackett, Business Development director of Executive Snow Control based in Maspeth, New York.

TrucBrush® originated as a response to a request by the manager of a large Boston-based airfreight company to find a way to manage the largest snow-related problem in the transportation industry. "He was seeking a solution that was safer than the manual method and did not require significant infrastructure and year-round dedicated facility space to effectively remove snow from the tops of the company's trucks and trailers," said Jim Burns, TrucBrush® inventor and president of TrucBrush Corporation.

TrucBrush® is manufactured in the U.S. and sold throughout North America.

Source: TrucBrush Corporation

Elgin Sweeper has introduced a front debris hose option exclusive to the bestselling Elgin Waterless Pelican® 3-wheel sweeper.

Designed for light to medium debris, including gravel, sand and cement, in both industrial and municipal applications, the optional debris hose is intended for hard-to-reach material accumulations.

"The front debris hose option on the Waterless Pelican allows the operator to manually remove certain debris and aggregate-type materials that are inaccessible via the sweeper's standard sweep gear," said Adam Braun, associate product manager at Elgin Sweeper. "This option is another example of the versatile sweeping solutions we provide our customers to help them meet their needs on the job."

Featuring a 15 cm diameter and a 3.5 m reach, the front debris hose can be operated by a single operator and is stored onboard the sweeper. The vacuum for the debris hose is created by the standard fan on the sweeper.

Source: Elgin Sweeper







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# John Deere Celebrates 50 Years of Motor Grader Innovation

Commemorating 50 years of the articulated motor grader at CONEXPO-CON/AGG in Las Vegas, John Deere displayed a restored JD570 model that was reconditioned by Don Bagby and Jerry Bode 2 retired John Deere Dubuque Works employees. Introduced in 1967, the JD570 pioneered many of the innovations and developments seen on motor graders today, including articulated frame steering, hydraulically-controlled machine functions and the rollover protective structure (ROPS).

Prior to the JD570 introduction, graders of the time were straight-frame machines with solid rear axles and typically only featured front-axle steering that led to poor maneuverability. The addition of frame articulation enabled operators to work more efficiently, especially in confined areas, than any previously built grader. Its steering methods enabled operators to "crab steer," allowing for completely new uses. The grader's front wheels could be

articulated to move on slopes, on windrows and in ditches, while the back wheels stayed on solid footing.

The JD570 was also the first grader, and possibly the first piece of construction equipment, to have a cab and canopy with the integral ROPS available from the factory. The year prior to its development, John Deere introduced the first commercially available ROPS for farm tractors and subsequently shared the patent for this important safety feature with the industry at no charge.

The 83-hp motor grader incorporated a power shift transmission with 8 forward and 4 reverse speeds, with a top speed of 34 km/h. The innovative machine



came equipped with a 3.66 m moldboard and weighed in at 9,200 kg. It also had a turning radius of just 5.5 m. Production of the JD570 ran until 1971, when it was updated to the "A" series. The powertrain configuration became the foundation of John Deere graders up until 1997. The machine also was the first motor grader to be compatible with snow wings.

Source: Deere & Company



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# IPD Introduces New Piston Families at CONEXPO-CON/AGG

Pistons are a key component in all engine and cylinder kits. They have undergone an extensive design evolution over recent years due to emissions requirements that have resulted in increasing cylinder pressures.

IPD now offers IPDSteel aftermarket friction welded pistons for a wide range of

applications, launched at CONEXPO-CON/AGG, IPD also offers aftermarket friction welded pistons for C7, C13, and C15 engines as well.

Industrial Parts Depot (IPD), manufactures aftermarket internal engine repair parts for heavy equipment, including pistons, cylinder liners, gaskets, engine bearings, and cylinder head parts.

The company is well known for its broad range of high quality engine parts for CAT, Cummins and Volvo.

IPD is headquartered in Torrance, California, where it has its engineering and administrative facilities, as well as its main distribution center. The company operates 3 other distribution centers throughout

the U.S., all of which include sales and customer service people.

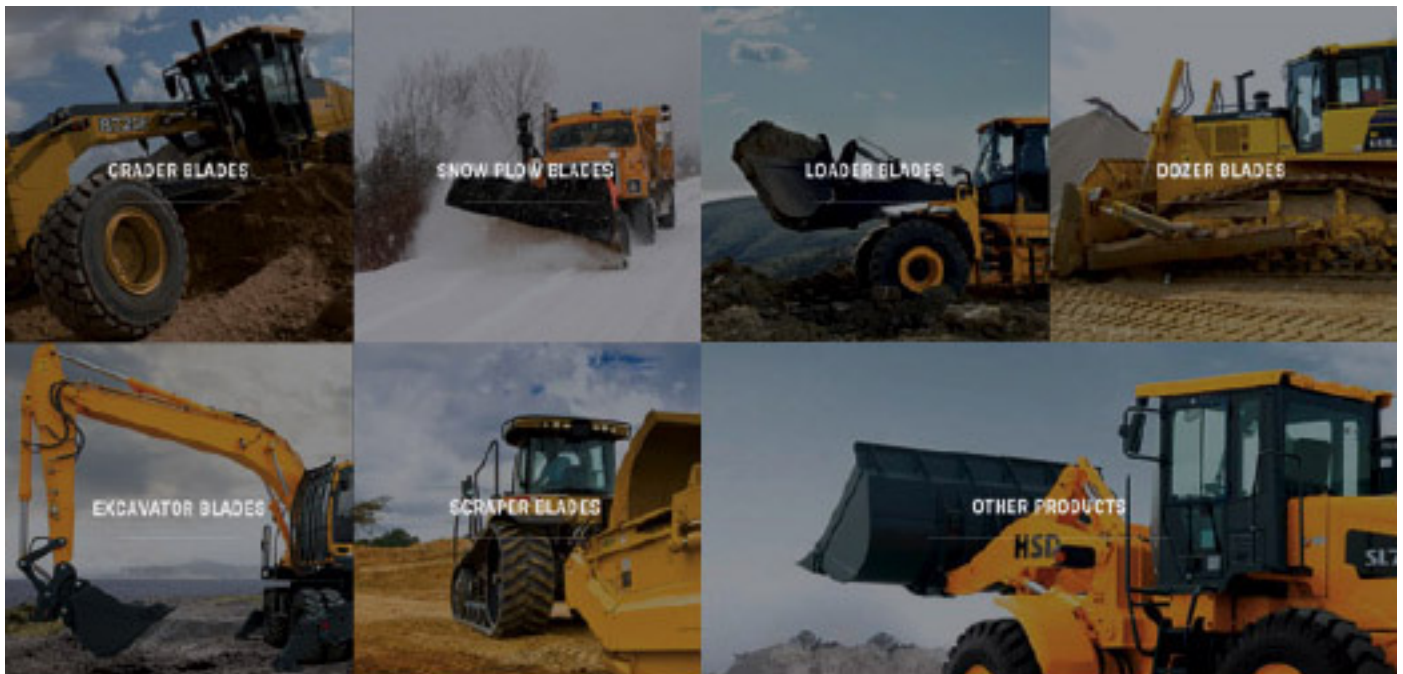
IPD also operates international subsidiaries in Australia and Europe, with added sales people based in Europe, the Middle East and Asia.

Source: Industrial Parts Depot



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# North American Premiere of the New Hatz 3-Cylinder Diesel Engines

Hatz presented its new 3H50 engines at CONEXPO-CON/AGG 2017. Developed for compact applications, the first 3-cylinder models will go into series production in 2018. The 3H50 will expand the Hatz H-series which already includes the 4-cylinder 4H50.

The 1.5 l Hatz 3H50 will replace engines with displacements over 2.5 l in many applications where its performance and packaging compare favorably with current engines. At the same time the fuel consumption values are significantly reduced thanks to iHACS (intelligent Hatz Advanced Combustion Strategy) that features a sophisticated combustion chamber geometry, Bosch injection technology, minimized friction and a charge air pressure of 25 psi. All this in a package measuring less than 653 x 612 x 650 mm (LxWxH) including engine mounted aftertreatment.

Following the family concepts, the various 3H50 models are also orientated

on the currently valid and future emission standards.

The 133 kg lightweight Hatz 3H50TI does not need any exhaust emission aftertreatment at all. Nevertheless, the engine achieves compliance with the EU Stage IIIA and US EPA Tier 4 interim standards in the power range from 25 to 50 hp. Avoiding sulphur sensitive components, the use of diesel fuel with up to 5000 ppm sulphur is no problem. Higher ambient temperatures in comparison to other 3H50 models are also possible. With a maximum torque of 146 lbf ft @ 1600-2200 rpm and up to



62 hp, the Hatz 3H50TI is the top performer of the 3-cylinders.

The Hatz 3H50TIC was primarily developed for the U.S. market and Canada as well as some Asian countries. In order to ensure compliance with emission standards, the proven combination of an external gas recirculation (EGR) and a diesel oxidation catalyst (DOC) reduces substances potentially harmful to the environment to the required level without the need of a diesel particulate filter (DPF). Therefore the engine still achieves up to 56 hp and provides a torque of 136 lbf ft. The additional components add approximately 21.3 kg of extra weight. The requirements of the new EU Stage V emission level require the use of a DPF. The Hatz 3H50TICD is thus optimally prepared for future emission standards while performance is the same.

The Hatz OPU concept is ideal for equipment manufacturers who have less capacity for specification of radiators, tubing and wiring of electronics, due to a tremendous ease of installation. The main application areas are primarily working machines such as hydraulic lifts, hydraulic power units, forestry machinery, drilling rigs and stationary applications such as pumps and generators. All H-series engines are also available as an OPU version. The customer only needs to connect the fuel supply, control box and battery.

Source: Motorenfabrik Hatz GmbH & Co. KG

## KOHLER Engines at CONEXPO-CON/AGG

A diverse array of equipment powered by KOHLER® engines from leading manufacturers such as Wacker Neuson, Vermeer, Excel Hustler, Simpson, and Husqvarna were showcased at CONEXPO-CON/AGG 2017. Attendees who visited the KOHLER booth learned about the company's full range of gasoline, diesel, and gaseous-fueled engines, which are ideal for a wide variety of applications in the construction, lawn and garden, commercial, industrial, and agricultural markets.

"We're proud to highlight a select group of KOHLER-powered equipment at this year's CONEXPO-CON/AGG," said Mark Johansen, director of marketing for KOHLER Engines. "From the 14 hp Command PRO gas engine in the new Simpson pressure washer, to the 74 hp KDI diesel unit powering the new Wacker Neuson loader, we've got the construction industry covered. Leading equipment manufacturers continue to respond positively to our integration flexibility as well as the overall performance and reliability that KOHLER delivers to construction pros at demanding jobsites all around the world."

In addition to the KOHLER-powered equipment being highlighted in the company's booth, numerous other newly-launched models were displayed at CONEXPO-CON/AGG. KOHLER is the exclusive engine supplier for the new EnPak A28GBW work-truck power solution from Miller Electric as well as for the new SCM 400 sweeper from Smith Challenger.

Source: Kohler Co.





# Scania Engines to Power Rescue Vehicles at U.S. Airports

Scania's low-emission engines will be used in airport rescue and firefighting vehicles at airports in the U.S.

Scania will deliver 24 16 I V8 engines for use in Oshkosh Airport Products' airport Striker 6x6 and Striker 4x4 rescue and firefighting (ARFF) vehicles. The engines are optimized for the Oshkosh powertrain, and each complies with Tier 4 final emission legislation. The ARFF vehicles will be put into service at John F. Kennedy International Airport, Newark International Airport, LaGuardia International Airport and Teterboro Airport, which are located in New York and New Jersey.

Art Schuchert, Sales & Marketing director for Scania USA, is keenly anticipating the 2 companies' collaboration on this deal, which he believes marks the start of a new journey in the partnership with Oshkosh.

"This project is important for Scania and will take us into the serial production of the prestigious Striker vehicles," he says.

For Oshkosh, the reason for choosing Scania is clear, as Jeff Resch, vice president and general manager of Oshkosh Airport Products, explains.

"Scania has a reputation for industry-leading quality, performance and service, which is why it makes so much sense to incorporate their engines into all Striker configurations," he says.

Rikard Mattsson is Area manager at Scania Engines, with responsibility for the cooperation between Scania and Oshkosh:

"We are looking forward to our engines providing Oshkosh products the best



possible performance and reliability, all backed up by our growing service network in North America," he says.

Source: Scania USA, Inc.

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## 2017 Chevrolet Colorado ZR2 Premieres in Calgary

Chevrolet introduced the Colorado ZR2 at the Calgary International Auto and Truck Show. After revitalizing an entire truck market segment with the launch of the Chevy Colorado, Chevrolet continues to innovate in the midsize pickup segment. The high-performance, off-road ZR2 trim level will launch this spring for the 2017 model year with a starting price of \$44,215 plus a \$1,700 destination freight charge.

"ZR2 is truly a segment of one and does everything well. We're thrilled to be able



to offer it for more than \$6,000 less than the next closest comparable truck," said



Doug Kenzie, brand manager, Chevrolet Trucks in Canada. "When purchasing a ZR2 at the starting price, our customers are getting all of the incredible off-road technologies that allow them to traverse everything from heavy two-track rails to high-speed desert running and full-on rock crawling."

Standard powertrain is the 3.6 I V6 engine shared with other Colorado models. The 2.8 I Duramax engine is available as an option.

The ZR2 is offered in either crew cab

or extended cab configurations (including short and long beds, respectively).

Front and rear electronic locking differentials and Multimatic Dynamic Suspensions Spool Valve (DSSVTM) dampers are interesting features included in the ZR2 package, as well as modified front and rear bumpers for better off-road obstacle clearance and ZR2 17x8" aluminum alloy wheels and 31" Goodyear Wrangler Duratrac® off-road tires.

Source: General Motors Canada



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## JCB to Partner with Williams Martini Racing

JCB is entering into a partnership with Williams Martini Racing ahead of the 2017 season. This partnership will offer the company immense opportunities to promote its brand around the world.

As part of the partnership agreement, JCB branding will appear on the Williams Mercedes FW40 chassis and rear-wing end plate from the start of the 2017 season. JCB will also be featured on drivers Felipe Massa and Lance Stroll's race suits and helmets, and, from the British Grand Prix onwards, all trackside personnel team kits.

The popularity of Formula One around the globe offers JCB a great opportunity to promote its brand to both new and existing customers and drive sales.

"I am an engineer and a manufacturer and designing and engineering innovative products is at the core of what JCB does," JCB chairman Lord Bamford said. "We frequently combine our engineering expertise with some of the best automotive technologies which means our machines are very fuel-efficient and intuitive to operate. Our partnership with Williams Martini Racing builds on that innovative and technological link, and our company's long association with motorsport."

"We are delighted to welcome JCB to our family of partners," Claire Williams, deputy team principal, Williams Martini Rac-



ing, added. "Engineering and innovation are also at the core of everything we do at Williams, which makes this partnership one of shared values and aspirations. We share a similar drive to continually push boundaries and not rest on our laurels in our desire to be the best. I know this will be a successful partnership for both our brands, and I look forward to embarking on this journey with such a prestigious brand as JCB."

Source: JCB

## International Trucks Crowns HX™ Series Walk-Around Champion at CONEXPO-CON/AGG

International Truck announced Robert Feldman of Mid-Atlantic Truck Center from the Northeast region, as the grand champion of the 2017 HX™ Series Walk-Around Competition at CONEXPO-CON/AGG. He was 1 of 6 regional winners selected to get an all-expense paid trip to attend the show in Las Vegas, where they were required to demonstrate their walk-around skills in front of a live panel of experts.

"The competition was designed to give every dealer sales professional the opportunity to demonstrate their technical and creative presentation ability with regard to the HX Series product," said Jeff Sass, senior vice president, Sales and Marketing. "The walk-around process is an essential selling skill and when executed at a high level, allows you to truly differentiate yourself and the International product."

To participate in the competition, each sales professional had to submit a personal video conducting a 10-minute walk-around of the new HX Series, focusing on the truck's main product features, benefits and advantages, as well as value added service their dealerships provide.

While only 1 grand champion was crowned, International Truck would like to congratulate all the regional winners and their respective dealerships:

- Travis Meiklejohn – Diamond International (Canada)



- Andrew Hirsch – Rush Truck Center, Charlotte (Central)
- Robert Feldman – Mid-Atlantic Truck Center (Northeast)
- Mallory Coulombe – Maudlin International (Southeast)
- Jeff Gullledge – Piller International (Southwest)
- Humberto Rosas – Peterson Trucks (West).

Source: Navistar International Corporation

## Appointments

The **Association of Equipment Manufacturers (AEM)** has elected **Brad Boehler**, president of Skyjack Inc., to the AEM CE Sector Board to fill an unexpired term.

AEM is the North American-based international trade group representing off-road equipment manufacturers and suppliers, with more than 900 companies and more than 200 product lines in the agriculture, construction, forestry, mining and utility sectors worldwide.

AEM officers and directors work on behalf of all member companies, giving their time and talent to provide strategic direction and guidance for Association action in areas including public policy, market data and exhibitions, as well as technical, safety and regulatory issues, and education/training.

Mr. Boehler joined Skyjack in 2003 and has progressively held strategic positions, including the previous titles of vice president of Engineering and vice president of Sales & Marketing. He holds the designation of Professional Engineer and began his career as a Military Engineer with the Canadian Armed Forces. He is active in several AEM working committees and chairs the AEM Canada Working Group and is also active in leadership roles for the International Powered Access Federation (IPAF).

Source: Association of Equipment Manufacturers (AEM)



## Construction Nights and Open House Days at Hartington Equipment

Hartington Equipment will host Construction Nights on April 13<sup>th</sup> and 20<sup>th</sup> at their Hartington and Perth, Ontario, store respectively. This by invitation only event will showcase Doosan Heavy and Kubota Compact Construction Equipment. Invitees will be able to operate various pieces of equipment and later be treated to a delightful dinner. Anyone interested in taking part in next year's event is invited to sign up with Hartington Equipment's team.

In addition, every one is welcome to the Open House events held on May 5<sup>th</sup> in Hartington and May 12<sup>th</sup> in Perth. Lunch served starting at 11:00 AM until dusk. Special discounts up to \$1,000 will be offered as part of Kubota's One Day Truck Load Event on top of customer's Keep It Orange Promotion and more. Many door prizes will also be awarded throughout the day.

Hartington Equipment is a 3<sup>rd</sup>-generation family-owned business since 1958 dealing Case Utility, Doosan Heavy and Full Line Kubota serving Frontenac and Lanark counties as well as representing Doosan in Eastern Ontario.

Source: Hartington Equipment

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## Charlie Bennett Inducted into the HHCA Hall of Fame

On February 23, 2017 the **Hamilton-Halton Construction Association** posthumously inducted **Charlie Bennett** of the Bennett Group of Companies into the HHCA Hall of Fame at their 97<sup>th</sup> Annual General Meeting and Dinner.

Mr. Bennett was recognized for his contributions to the regional and national construction industry and his well-known zest for life. The presentation included a number of colorful stories, descriptions of some of his most challenging projects and photos highlighting both his professional career and personal life.

Charlie Bennett was a larger than life character who left the family farm to become a plumber, first working with the Adam Clark Company Ltd in Hamilton. In the mid 1970s he founded Bear Construction, building his business in Northern Ontario where he was able to indulge his love of the great outdoors. In 1981, in order to grow, Bear Construction transitioned to the Bennett Group of Companies and moved south into the Halton and Peel regions. Both companies focused on water and wastewater projects.

Mr. Bennett had a builder's mind and a designer's imagination. He developed solutions to problems that no one else could find – inventing the solution when necessary. He and Jeff Wood established B.N.W. Valve Manufacturing Limited in 1983 and notably designed rugged stainless steel slide and sluice gates that are used in water and wastewater facilities throughout North America. His passion and ingenuity weren't confined to his business, Charlie Bennett also designed and built boats.

Mr. Bennett's sons Colin and Adam accepted the award on their father's behalf.

Source: Hamilton-Halton Construction Association

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**Dynapac Road Construction** has appointed **Brian Bieller** as president and regional general manager for North America to its new company structure. In his new role, he will be responsible for all road construction equipment operations within the U.S., Canada, Mexico, Central America and the Caribbean.

His mission is to further develop the Dynapac business and serve its customers in the different regions while establishing the new legal entities as operational units. Bieller will continue with his current mission and transition into the new role beginning of Q2 2017.

Mr. Bieller began his career in the construction rental industry and later joined Dynapac USA in 1999. He served as both a district and regional sales manager before accepting the role as vice president sales and marketing Compaction Products. Since then he has worked within Atlas Copco Specialty Rental North America and Atlas Copco Construction Equipment U.S. as vice president business development. Mr. Bieller currently holds the position of vice president and business line manager for Road Construction Equipment.

Brian Bieller holds a Bachelor of Science degree in Accounting, and has more than 20 years of experience within the construction equipment industry. He has solid and successful sales, marketing and operational experiences from both the Road Construction and equipment rental industries.

Source: Atlas Copco Construction Equipment USA





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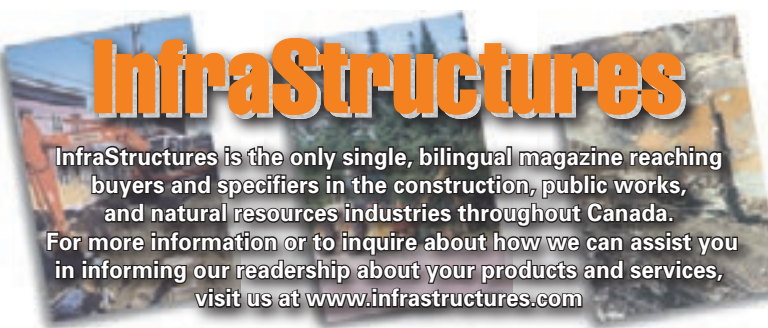
The high performance dual steering gear system is designed for an extra tight turning radius, and the electrical system is designed for dual steer from the ground up, with no third party splicing into a wire harness.



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# Agenda

- Journée Expo-Bitume**  
 April 6, 2017  
 Drummondville, QC Canada
- National Heavy Equipment Show**  
 April 6 - 7, 2017  
 Toronto, ON Canada
- ExpoCam, Canada's National Trucking Show**  
 April 20 - 22, 2017  
 Montreal, QC Canada
- APWA - 2017 Snow Conference**  
 April 23 - 26, 2017  
 Des Moines, IA USA
- APEX**  
 May 2 - 4, 2017  
 Amsterdam, the Netherlands
- APOM Technical Day**  
 May 18, 2017  
 Sorel-Tracy, QC Canada
- Austmine 2017**  
 May 22 - 24, 2017  
 Perth, Australia
- IRT Asia 2017**  
 May 25 - 27, 2017  
 Bangkok, Thailand
- Canada North Resources Expo**  
 May 26 - 27, 2017  
 Prince George, BC Canada
- 2017 AORS Municipal Public Works Trade Show**  
 June 7 - 8, 2017  
 Milverton, ON Canada
- INTERMAT ASEAN**  
 June 8 - 10, 2017  
 Bangkok, Thailand
- Atlantic Truck Show**  
 June 9 - 10, 2017  
 Moncton, NB Canada
- Cisma services : Démaroute 2017**  
 June 14 - 15, 2017  
 Bruguères, France
- SIMA Snow & Ice Symposium**  
 June 20 - 23, 2017  
 Montreal, QC Canada
- 14<sup>th</sup> Moscow International Oil and Gas Exhibition / MIOGE 2017**  
 June 27 - 30, 2017  
 Moscow, Russia
- Minexpo Africa**  
 August 10 - 12, 2017  
 Dar es Salaam, Tanzania
- APOM Technical Day**  
 September 14, 2017  
 Charlesbourg, QC Canada
- International Construction & Utility Equipment Exposition (ICUEE)**  
 October 3 - 5, 2017  
 Louisville, KY USA
- inter airport Europe 2017**  
 October 10 - 13, 2017  
 Munich, Germany
- Waste & Recycling Expo Canada / Municipal Equipment Expo Canada**  
 October 25 - 26, 2017  
 Niagara Falls, ON Canada
- The Big 5 Dubai - International Building & Construction Show**  
 November 26 - 29, 2017  
 Dubai, United Arab Emirates
- InfraTech**  
 January 10 - 12, 2018  
 Essen, Germany
- BAUMA CONEXPO AFRICA**  
 March 13 - 16, 2018  
 Johannesburg, South Africa
- INTERMAT Paris**  
 April 23 - 28, 2018  
 Paris, France



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