As I write this, I am sitting on a jobsite in Victoria, Australia, watching a crew perform some road work. I always find it fascinating to watch different crews doing similar tasks in different places around the world. It is often a very good way to appreciate your own methods and to learn about new ones that can possibly help you work more efficiently or safely at home.

For example, road crews in Australia are not required to wear hard hats – the logic being that there are no falling hazards. That makes sense, when you think of the nuisance a hard hat can be and how easily it falls off when you are bending over or looking down – which is often in road construction. An innovation that I have seen are high visibility brims with neck shrouds which fit over hard hats to protect workers from the sun (and rain).

It’s not the “Wild West” out here, especially as regards OH&S. Signage in construction zones is excellent and traffic management plans are taken very seriously. It is not just something that has to be done, it is well thought out and very practical.

That is also what our readers say about InfraStructures. Editorial content is what sets us apart, and why you as an experienced user or manager of equipment have come to rely on us as much as you do.

Being able to view and understand different ideas and new perspectives lets you consider your own situation and possibly adopt or co-opt some of those ideas to help you work safer and more efficiently. Well, I see the foreman coming over for a word, he’s probably read the magazine online and wants to ask some questions, ‘Fair Dinkum’ as the locals say.

Have a safe and happy holiday season, and I’ll try and get some work done down here before I return to the cold and snow of home!

On the cover: Thanks to the long reach of its Liebherr R 960 Demolition crawler excavator, Hamburg-based Ehlert & Söhne is now able to get involved in major demolition projects such as the demolition of a 7-story building in Ballindamm in the heart of Hamburg, Germany.
Wavefront Technology Solutions Inc. recently announced that it has entered into an exclusive 3-year Powerwave distribution agreement in the State of Kuwait with Gulf Drilling and Maintenance Co. (GDMC). Wavefront and GDMC continue to deliver excellent operating results in both near wellbore stimulation ($\leq 6''$) as well as deeper formation stimulation ($\geq 24''$) through Wavefront’s Powerwave Odyssey Custom Stimulation (POCS) methodology. The success of Wavefront’s POCS has allowed GDMC to increase its market share of well stimulation activities over other local and international coil tubing service companies. Wavefront and GDMC have worked diligently together to build the Powerwave brand in Kuwait and have executed a distribution agreement that will provide GDMC with exclusive rights to all Powerwave related technologies in Kuwait. Under the terms of the Agreement, GDMC will pay Wavefront a minimum yearly aggregate amount of US$1 million ($1.29 million) for the exclusive rights to Powerwave in Kuwait. Payments will be made to Wavefront to coincide with the company’s fiscal quarters. Wavefront will continue to provide marketing and technical support, and will dedicate one engineer for POCS modeling and programming activities.

Source: Wavefront Technology Solutions Inc.

International Truck Chooses PIT Group

PIT Group, a research and engineering group focused on improving fleet maintenance and operations in the North American transportation industry, recently announced that they have been chosen by International Truck to test the fuel efficiency of its newest model and engine. “International Truck commissioned PIT Group to test its new LT Series tractor and A26 engine after taking part in the In-Service Fuel Testing we conducted last year for a large PIT Group fleet member,” said Yves Provencher director, market and business development at PIT Group. “They trusted our unbiased fuel efficiency testing capabilities after witnessing the credibility of our processes in that evaluation of a variety of tractor and powertrain combinations. PIT Group is proud of its involvement in a project of this magnitude.”

“We appreciate that International Truck recognized the value of our testing procedures and the professionalism of our team,” stated Dwayne O. Haug, Business Development at PIT Group and head of its U.S. operations. “Our growing operations in the U.S. are the result of our credibility with a wide range of OEMs and manufacturers. We look forward to working with more trucking industry suppliers to validate the fuel efficiency of their technologies.”

For International Truck, the PIT Group tested the fuel efficiency of its new LT Series 625 Class 8 tractor and A26 engine against competitive tractors with similar specifications. For the test, PIT Group procured 2018 model year vehicles with 2017 GHG compliant engines. The 6x4 tractors were fitted with full aerodynamics and pulled 53-ft van trailers with side skirts. The test followed TMC Fuel Economy
Guangxi Liugong Machinery Co., Ltd (LiuGong) announced a 546 million RMB (110 million $) acquisition of 51% shares in Shanghai Jintai Engineering Machinery Co., Ltd.

Jintai is one of the leading enterprises of piling foundation industry and also a pioneer who started R&D and sales of underground hydraulic diaphragm wall grabs and rotary drilling rigs in China. The company has developed a full line of piling machinery, comprised of 16 series of more than 70 models, among which, the underground hydraulic diaphragm wall grabs, rotary drilling rigs, engineering drilling rigs and multi-axis drilling machines, are core products. All their products are widely used in the construction of railways, subways, highways, bridges, dams and harbors. The company has ranked No.1 for many years in the domestic sales of its SG series of underground hydraulic diaphragm wall grab and its self-developed products of double wheel mixing drillers and double wheel milling machines have filled the industry gaps in China with world-class performance.

The acquisition allows LiuGong to add piling machines to its product portfolio. LiuGong will participate in the R&D, manufacture, sales and services of the piling machines to ensure the customers’ experience with the products and also further enhance its commitment of providing comprehensive equipment to meet with customers’ various application needs around the world. In conjunction with LiuGong’s global business network and customer resources, Jintai will have a large leap at its global sales and improve the profitability for both companies.

Source: Guangxi Liugong Machinery Co.

ALI MOVES INTO LARGER HEADQUARTERS AND OPENS LIFTLAB

On October 12, 2017, the Automotive Lift Institute (ALI) officially opened its new headquarters and LiftLab in Cortland, New York. The grand opening celebration was attended by ALI members, lift inspectors, suppliers and other guests from the vehicle lift and workplace safety industries. Growth of ALI lift safety initiatives like the ALI Lift Inspector Certification Program drove the need for a larger multipurpose facility.

The new 790 m² headquarters is more than 4 times larger than the organization’s previous office. It includes 325 m² of renovated office and conference space, as well as a modern classroom that complies with nationally-recognized examination requirements for up to 20 participants.

What really differentiates the facility is its new LiftLab. ALI member manufacturers have provided and installed 12 vehicle lifts in the expansive LiftLab area. They range from the smallest motorcycle lift to the most common 2-post style, all the way up to heavy-duty inground and mobile column lifts. This is the only facility in North America that brings together such a wide range of operational lifts from various manufacturers and makes them available for hands-on industry training.

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“Through the generous support of the ALI member companies that produce North America’s certified vehicle lifts, we are able to facilitate opportunities for candidate lift inspectors, product safety engineers and others to come to a single location to examine 2-post, multi-post, scissors, inground, mobile column and low-rise lifts,” says R.W. “Bob” O’Gorman, ALI president. “This will enable lift inspector candidates to more expeditiously meet the requirements of the ALI Lift Inspector Certification Program, which will help address increasing customer demand. At the same time, we can improve the technical skills and knowledge of the experts charged with testing and certifying future vehicle lifts.”

Source: The Automotive Lift Institute

Caterpillar Launches Yellowmark™ Parts

In August 2017, Caterpillar communicated a new corporate strategy to its global dealer network – a strategy led and defined by a new purpose statement, “Our solutions help our customers build a better world.” Through partnerships with Cat® dealers and investment in digital-enabled solutions and services for the aftermarket, Caterpillar is one step closer to fulfilling this purpose.

With the objective of being the lowest lifecycle cost provider, Caterpillar is committed to offering a full range of options and solutions to serve different customer needs. This includes heightened focus on improving customers’ online experience, expanding Customer Support Agreement (CSA) services and digital connectivity to improve uptime, asset utilization and machine life management, and the launch of the new parts offering, Yellowmark™, A Caterpillar Brand.

“We are taking steps to build on the Caterpillar experience. Whether online, through our new services or new products, we are working with our dealers to deliver a step change in our aftermarket offering,” said Nigel Lewis, chief marketing officer and vice president of Caterpillar Inc. “By providing customers with expanded technology, services and repair/rebuild solutions, we are able to present them with a growing suite of solutions aimed at providing not only a broader selection, but affordable options to maintain their equipment and keep it at work. That’s important to them and central to what we strive to do on a daily basis.”

Caterpillar announces plans to introduce a new tier of repair and replacement parts to support the small- and medium-sized equipment under its Construction Industries umbrella. Yellowmark parts will offer an alternative for customers looking for reliable, value-priced parts, conveniently available from their local Cat dealer.

Yellowmark parts will encompass and expand on Cat Classic Parts line. As part of the new Yellowmark brand, new offerings will be added over time to the Classic line to ensure a full range of parts for BCP and GCI equipment. These new parts offerings will be introduced throughout 2018 and will initially include repair and replacement parts. Future new parts introductions will also include maintenance and wear parts.

From skid steer loaders and compactors to wheel loaders, excavators and articulated trucks, the Caterpillar BCP and GCI lines provide the machine solutions companies need to build successful businesses. When they want aftermarket solutions, Cat equipment customers need look no further than their Cat dealer for a range of parts to fit their needs – whether it’s premium Cat Genuine or Cat Reman parts lines or the new Yellowmark brand for customers looking for a balance between reliability, affordability and convenience.

Source: Caterpillar
cused on expansion here in Saskatchewan and building for both the roads and the agricultural industries.

Source: Rite Way Mfg. Co. Ltd.

ATLAS COPCO´S HYDRAULIC ATTACHMENT TOOLS DIVISION WILL BECOME PART OF EPIROC

With effect from January 1, 2018, the Hydraulic Attachment Tools division within Atlas Copco will become part of Epiroc, the company that Atlas Copco plans to divest out in mid 2018. The division manufactures excavator attachment tools such as hydraulic breakers, cutters, pulverizers, bucket crushers, shears, grapples and magnets. Also effective from this date, all the division’s current products will be delivered with Epiroc product branding.

The Hydraulic Attachment Tools division has been a technology leader for more than 50 years. The hydraulic breaker was originally developed in 1963 by the German company Krupp Berco Bautechnik, which became part of Atlas Copco in 2002.

The product range today includes 100 different hydraulic attachment tools, and is designed to ensure that customers can always find the right tool for their specific application and excavator. Among others, the division manufactures the HB 10000, the largest serial hydraulic breaker in the world – every punch equals the weight of 130 elephants.

For the Hydraulic Attachment Tools division, it will be business as usual. Products will be manufactured in the same facilities as today, developed by the same R&D teams and marketed by the same faces to the customer.

“We are building on a very solid foundation in the industry”, says Goran Popovski, president of the Hydraulic Attachment Tools division. “Within Epiroc we can even better focus on what is core for us: providing solutions and best support to our customers around the globe. Epiroc is a new player with a solid history in the market and our ambition is to continue to have market leading positions in each market and each segment.”

Provided shareholders’ approval, in 2018, Atlas Copco will become 2 separate global groups of companies: Atlas Copco, focused on industrial customers, and Epiroc, focused on mining, infrastructure and natural resources equipment.

Source: Atlas Copco

IFAT 2018 with New Future Platform “experience.science.future.”

Next year’s IFAT – the World’s Leading Trade Fair for Water, Sewage, Waste and Raw Materials Management – will come up with a novelty: under the banner of “experience. science.future”

From May 14 to 18, 2018 the Munich exhibition center will be a platform for science & research, education & training, jobs & career and start-ups – in short, for thought leaders and junior staff in the environmental sector.

For IFAT’s Exhibition Director Silvia Fritscher it is essential to promote ideas and young professionals, especially in the environmental industry: “The growing discussion about environmental and climate protection entails an increasing demand for qualified specialists and pioneering innovations. experience.science.future. is our response to this demand, bringing together the sector’s smart and emerging minds.”

Amidst the IFAT events and activities, experience.science.future. will complement the exhibition and its supporting program in Hall B4, where it will pool universities, start-ups, associations and NGOs on more than 1,000 m², offering space for the most innovative technologies, strategies and research projects in the environmental field. In a networking lounge, pupils and students will have the opportunity to catch up on “green” occupations and get in touch with prospective employers.

Source: Messe München

Building with Wood at bautec 2018

For many years, steel, glass and concrete have been synonymous with modern building designs. More and more, wood, probably the world’s oldest construction material, is now adding a special touch to buildings. Measured against the overall number of structures the percentage made entirely or partially from wood is rising all the time. The next bautec will be highlighting the suitability of wood and renewable materials for building, energy saving and even insulating from February 20 to 23, 2018 in Berlin Germany.

At bautec the range of products will include insulation materials, windows, glass, wood and glued wood for use in buildings as well as interior construction.

Hall 22 features the Materials Forum which is where architects, planners, property developers and the processing industry can obtain extensive information on innovative renewable raw materials.

The supporting program at bautec will be offering a wealth of relevant information on numerous topics. In 2018 the slogan of the Window Conference is “New Techniques – New Materials”. Speakers with academic and practical experience will explain applications in all kinds of areas including new and old buildings.

Wood is an increasingly popular building material in cities. For engineers it means dealing with various requirements, construction techniques and regulations. “Building with wood in an urban environment” will address separate audiences at the Engineers Construction Conference and the Wood Construction Conference for Architects. Topics will include “Construction using plywood panels taking the Jakarta hotel project in Amsterdam as an example“, “Use of composite wood concrete in multi-story wood structures” and “Hot-state measurement of wood components in accordance with DIN EN 1995-1-2/-NA, with sample calculations”.

Topics to be addressed by 45-minute lectures will include “Inner-city wooden structures from a structural support planning engineer’s standpoint, taking 5-story buildings in Leipzig und Berlin as an example”, “The ‘üstra’ housing estate in Hanover: 140 flats in 5-story wooden structures”, and “Haus 2019: the first energy-neutral house of the Federal Environmental Agency in Berlin”.

Source: Messe München
Twenty minutes west of Calgary, Alberta, you’ll find the (mostly) quiet town of Cochrane. Cochrane is no sleepy backwater though; it is the province’s largest town and has been one of the fastest growing communities in Canada for several years. But the town’s construction efforts have not been music to everyone’s ears.

Back in 2014, after sleepless nights spent disturbed by the “beeping” sound of construction vehicle backup alarms at nearby businesses, local resident Kevin Shier along with other neighbors, went looking for an alternative.

“Over 1,000 people in our area were affected by the noise,” explains Mr. Shier. “Current bylaws prohibit industrial noise after 10 pm and before 7 am, but it was not so much the loudness of the alarms, it was the permeating noise they produce. Even at low levels it disturbs your sleeping patterns. I have a friend who sold his house and moved from our neighborhood because of it. This isn’t limited to one area of town. There is construction in every quadrant that affects residents.”

The group’s search led them to “white noise” broadband sound backup alarms, which replaces the “beep” with a “shush” sound. As broadband sound is directional it is concentrated to a specific area: alerting workers to vehicles in their immediate vicinity. In fact, the group was so convinced by the technology, they actually bought several alarms using their own money and gave them to the noisy businesses for testing.

After the first business switched, several others in the town soon followed suit, and to date nearly 200 broadband backup alarms are in use in the town: between the Town of Cochrane’s fleet, as well as local businesses AllSpan, Spray Lakes Sawmills, and Cochrane Landscape Supply. In fact, to cater to demand, a local supplier was needed to ensure a steady supply of backup alarms were available. So Kevin Shier became a distributor for Brigade Electronics, the manufacturer of the white noise alarm system they had used.

Following these successes, members of Cochrane’s council even pledged to amend the town’s bylaw to permit the sole use of broadband backup alarms in the town. However, 2 years on and no legislation had been passed.

“With the past council we were told it was a simple change: a no brainer,” says Mr. Shier. “But after our community group met with the bylaw department, we were told that the town would not be proceeding with a noise bylaw amendment as it would be too hard to police with out of town contractors working in the town. The Council felt it would also preclude some vendors from bidding on jobs for the Town of Cochrane’s internal departments.”

“If we don’t have a bylaw with specific wording, bylaw officers have nothing to enforce,” he says. “We all know of many areas where bylaws are ‘softly’ enforced to better our communities. However, without a ban on tonal alarms, we can’t even start the conversation with businesses. Local infrastructure projects for the Town of Cochrane are typically large, most exceeding $100,000, so changing to an alarm that costs $100 on a vehicle is not an onerous expense.”

In addition, Kevin Shier’s role as the only local distributor has led to accusations of a vested interest on Shier’s part; something he strongly refutes.

“There were 3 reasons I became a distributor,” he says. “First, no other supplier in Cochrane existed (which is still the case), secondly, the Town of Cochrane insisted local distribution was made available, and thirdly, to be able to offer the technology at cheaper prices; as most online retailers in Canada are marking them up 2-3 times over their purchase price. It doesn’t matter where they purchase them. It matters that it gets done.”

Despite the halt in progress, Kevin Shier’s efforts continue, and he hopes the new council will support bylaw changes.

“As community members, it isn’t our job to police noise in the town,” he adds. “And without a bylaw, it isn’t the Town’s job either. Without a bylaw, we can’t manage noise pollution the way the community wants. We know we need to offer win-win ideas – not force our demands upon businesses. This means educating them about the negative health effects, and demonstrating that they have viable

Will Brakes Be Taken Off Backup Alarm Conversion?

Dave Barton, on behalf of Brigade Electronics (Canada)
Special Collaboration
JCB’s Dealer Network Expands in Canada with Addition of Westcon JCB

Westcon JCB, headquartered in Regina, Saskatchewan, is the newest addition to JCB’s growing Canadian dealer network. The new dealer will sell, rent and service JCB equipment from branches in Regina and Saskatoon, Saskatchewan, and Winnipeg, Manitoba.

“Westcon is continually looking for new product lines, and we are pleased to now represent JCB construction products in Saskatchewan and Manitoba,” said Brian Brown, president and CEO of Westcon Equipment. “We plan to build the business on the basis of our tried-and-true formula of customer service and customer relationships.”

Westcon Equipment has sold and serviced heavy equipment since 2004. The new Westcon JCB will initially carry JCB backhoes, excavators, skid steers, compact track loaders, telescopic handlers, wheel loaders, Access aerial work platforms and rough terrain forklifts.

Westcon JCB will also sell and service 2 new JCB machines – the Teleskid, the first skid steer with a telescopic boom, and the Hydradig wheeled excavator/tool carrier. Used equipment acquired via trade-ins and rental fleet sales is also available.

“With a reputation for outstanding customer service and integrity, Westcon Equipment is the ideal partner to help JCB grow its market share throughout Saskatchewan and Manitoba,” said Christian Baillie, JCB North America’s vice president of Construction Equipment Dealer Sales.

“Since entering the equipment sales and rental market more than a decade ago, Westcon has continued to grow and develop a loyal customer base. We look forward to working with them and helping their customers discover how JCB machines can improve productivity and profitability.”

Source: JCB North America
Pettibone Introduces Cary-Lift 254i to Material Handling Lineup

Pettibone has introduced the Cary-Lift 254i to its line of pipe, pole and log handlers. Purpose-built to deliver numerous safety and performance benefits over other material handling alternatives, the Cary-Lift is particularly adept at moving and placing heavy pipe in stock yards and construction sites.

The Cary-Lift 254i features a unique overhead lift arm design, giving the operator full front visibility when lifting or transporting loads – a sharp contrast to the lift arms on wheel loaders, which are located directly in front of the vehicle. Additionally, Cary-Lift forks are capable of tilting down 90° for specialized lifting tasks, such as unloading pipe from railroad gondola cars.

The 254i is powered by a 225-hp Cummins QSB6.7 Tier 4 diesel engine. The machine provides a maximum load capacity of 11,340 kg and max lift height of 4.27 m. Offering 4-wheel drive with 2-wheel, 4-wheel and crab hydraulic power steering modes – and with the wheelbase limited to just 366 cm – the 254i can achieve a turning radius of 7.16 m.

Unlike forward-reaching articulated loaders, the Cary-Lift’s heavy-duty, solid steel frame design allows it to take full loads into sharp turns without sacrificing load capacity or stability. Hydraulic frame sway control and side shift capabilities further stabilize loads by leveling the lifting frame when driving on uneven ground.

The sway cylinder moves 7° both right and left of center. A sliding door offers quick access to the comfortable operator cab. Dual joysticks provide intuitive controls to shift gears and control the hydraulics.

A quick attach system increases the machine’s versatility, with fork frames, pipe and pole baler, log baler, scrap baler and tire handler all available as attachments.

Source: Pettibone/Traverse Lift, LLC
Meet the next generation of Hilti powder-actuated tools with proven DX direct fastening technology. The new DX 5 features a built-in digital service indicator screen and Bluetooth technology. Now you can know in advance when it is time to clean or service your DX 5 so the tool is always ready for your jobsite challenges.

The digital indicator screen on the tool notifies you when it is time for cleaning or service. And with built-in Bluetooth technology, you can pair the DX 5 with the Hilti Connect app to see specific tool usage and performance data, last synced location of the tool, order fasteners and cartridges, schedule service, and view manuals and how-to videos.

The DX 5 is built to last. Rely on it for a wide range of fastening applications on high strength steel and concrete base materials. As a fully automatic tool, it speeds up the job of fastening wood, metal track, electrical conduits or even insulation boards and grating plates.

Source: Hilti, Inc.

Source: Flowcrete Group Ltd.
Vacuum Lifting Technology Lands on White House Steps

National Park Service (NPS) cites safety and versatility among major considerations when deciding on concrete lifting system manufactured by Tulsa-based Vacuworx to handle recent renovation of South Portico stairways at the White House, in Washington, DC.

Vacuum lifting technology has made its way to the White House as part of the National Park Service's historic renovation of the building's South Portico steps. The USD1 million ($1.28 million) project, which included dismantling Truman-era staircases and installing carefully selected cuts of Missouri limestone, was completed between August 5 and August 30, 2017.

Jessica Gordon, an exhibits specialist with NPS’ Historic Preservation Training Center (HPTC), said a material handling solution that incorporated a Vacuworx MC Series Vacuum Lifting System proved advantageous as crews pulled 2 base stones weighing approximately 1,100 kg each, and set a total of 46 new slabs. Each new South Portico step – there are 21 located on the east and 21 on the west – are approximately 25 cm long, 18 cm deep and 50 cm wide. The 4 new landing stones are 335 cm long, 18 cm thick and 183 cm wide. Ms. Gordon noted, saved crews nearly 8 hours as she estimates that method would have required an additional 10 minutes per limestone step during the installation process. The application of vacuum lifting also mitigated the risk of chipping the top-grade material by prying on it with a bucket or fork, she said, and curbed the possibility of damaging an adjacent patio on the South Lawn.

“We’re moving, fitting, lifting, spreading the mud and laying it down,” said Jessica Gordon. “All the re-handling; it adds up.

With the remote operation, we can safely pick up and maneuver materials without compressors, hoses or other accessories presenting trip hazards. What really sold us is that everything is self-contained, in one unit.”

Timing of the South Portico project overlapped a remodel of 1600 Pennsylvania Avenue that was facilitated by NPS...
and the General Services Administration. The US$3.4 million ($4.3 million) project was completed in August and included the replacement a 27-year-old HVAC system along with renovations of the Navy Mess kitchen, West Wing lower lobby and IT system. According to the White House, these renovation plans had been approved by the previous administration.

The NPS’ Frederick, Maryland-based Historic Preservation Training Center focuses on maintaining and preserving icons of historical and cultural significance throughout the U.S. Jessica Gordon said that the agency handles about 35 to 40 projects a year, among its 3 divisions: Masonry, Woodcrafting and Carpentry. The scope of its masonry work includes 10 to 15 jobs a year, she said, with the typical project cost ranging between and estimated US$50,000 and US$400,000 ($64,000 and $512,000). According to Ms. Gordon, “Our work is project-based, so the rental option works well for us. Versatility is a major consideration.” Vacuworx Vacuum Lifting Systems were also used by NPS to help rehabilitate the steps that guide visitors to a memorial building at Abraham Lincoln Birthplace National Historical Park in Hodgenville, Kentucky.

The South Portico was originally constructed during the Monroe administration in 1824. New steps, constructed of Missouri limestone with a concrete base, were erected in 1952, during the presidency of Harry S. Truman. Springfield-based Phenix Marble Co. quarried the newly installed limestone. “The NPS has been handling maintenance projects at the White House since 2001,” said Ms. Gordon. “It’s enjoyable to be part of making history.”

Source: Vacuworx

ALLU’s M-Series Proves Itself in Brazilian Surface Mining Operations

Founded in 1998, Máquina Solo is a Brazilian company which specializes in supplying foundation, geotechnical, mining and environmental equipment throughout the country. Considered to be one of the leading specialist equipment distributors in Brazil, the company, which began operations supplying hydraulic hammers, now acts as the representative for 14 leading manufacturers, supplying over 24 different product lines.

Driving the business forward into its 19th year is the commitment of all at Máquina Solo involved in the business to deliver solutions that meet the needs of its customers. This is achieved by being involved in all aspects of the supply process, and covers such aspects as application analysis, equipment selection, sales through to service, and aftermarket support.

One such company that has forged excellent relations with Máquina Solo is Finnish manufacturer ALLU, whose Transformer and Processor attachments have been particularly well received in Brazil. The reasons for this are manifold, but the power, flexibility and transportability of the equipment has contributed to ALLU equipment being highly prized in Brazil, with the service and support provided by Máquina Solo complimenting the equipment.

An area that has particularly seen the benefits of the ALLU Transformer range has been in surface mining operations. As the Transformer is essentially designed to fit an excavator or loading shovel, this has made the equipment ideal for large scale surface mining operations, where transportability and productivity are essential requirements of material handling equipment.

With many units now working throughout Brazil, one such application has seen the ALLU Transformer M-Series being used at a nickel mine, screening chalcedony directly in the mine, in order to upgrade the nickel concentration on the processed material. This particular model was chosen due to its high mobility and functionality in screening the material in-situ, instead of loading onto trucks, then transporting the material to stationary screening plant, and then re-transporting the material back to where it originally came from. This has meant the company has been able to replace its stationary screening equipment, freeing up resources as well as enjoying greater flexibility in its operations.

Source: ALLU Group

Source: Vacuworx

O30653
Aquajet Systems AB, a global leader in hydrodemolition machine manufacturing, introduces the EcoClear® water filtration system. The innovative machine works with Aquajet’s full line of hydrodemolition robots to treat the wastewater generated by the process by neutralizing water pH and greatly reducing its turbidity so that it can be safely released back into the environment. Until now, methods to treat wastewater on site were inefficient, took up too much space, or were simply unavailable, leading to significantly increased costs and logistical challenges. The EcoClear system enables the hydrodemolition contractor to treat wastewater in real time and maintain an environmentally sound jobsite.

“We want our customers to focus on what they do best – precise hydrodemolition of concrete bridges and other structures – not how they will manage the water removal. That’s why we developed EcoClear,” said Roger Simonsson, Aquajet Systems managing director. “It collects, neutralizes and removes solids without requiring the hassle of a separate water reservoir or filters. This enhances customers’ productivity while exceeding environmental regulations.”

The EcoClear – which is powered by Siltbuster Ltd., a leading manufacturer in water treatment systems – moves as much as about 20 m$^3$/h, through a series of treatment chambers that neutralizes alkaline water to a pH of 6 to 9 and reduces turbidity to just 20-25 mg particles/liter. The entire process can be watched monitored and controlled online with the RECO control system.

The machine works by pumping water expelled from an Aqua Cutter into an inlet chamber, where a flocculating agent is automatically added to help clump the particles in the water. The water then flows into a second chamber that introduces carbon dioxide to neutralize the pH. In the next chamber, the floc, or solid particles, settles into a storage hopper and is removed by the integrated pump. The water continues to another chamber for a second
pH adjustment. A final monitoring tank confirms the water pH has returned to a neutral 7 before it’s pumped out.

Optical turbidity sensors and pH probes continuously monitor and record the water quality to ensure only clean water is discharged. If the water does not meet set limits, the feed pump automatically shuts down to prevent dirty water from escaping. The water then starts to recirculate until it meets the preset values of pH and turbidity.

Aquajet designed the EcoClear for easy maintenance. A folding roof and integrated walkway make it safe and convenient to inspect the machine. The one-of-a-kind design also doesn’t require filters, eliminating the accompanying downtime and cost of replacing them.

The electrically powered EcoClear is compatible with the full line of Aqua Cutter hydrodemolition robots and Power Pack units. The design meets ISO container standards for easy transportation.

The dynamic combination of the Aqua Cutter Hydrodemolition series and EcoClear work well in applications such as roads and bridges, ship cleaning, waste water plants and petrochemical plants. Source: Aquajet Systems AB Brokk Inc.

The 2018 Media Kit is available for download on www.infrastructures.com

Advertise in the FIRST and ONLY trade magazine reaching users of heavy machinery and specialized equipment all across Canada!
Matching material with excavator/loading shovel and the right processing attachment can often be a tricky business. In order to simplify a complicated process, ALLU has developed a unique and interactive product selector which enables customers to match their requirement with the most suitable ALLU Transformer.

The ALLU Transformer is a hydraulic attachment for wheel loader, excavator, skid steer or similar equipment. The exciting and extensive range has been developed over many years to effectively make material processors’ lives easier and more productive.

The ALLU Transformer means that companies processing soil, sand, rubble and other materials no longer need to bring both a wheel loader/excavator and a crusher on site. Instead, the ALLU Transformer screens, crushes, pulverizes, aerates, blends, mixes, separates, feeds and loads materials thereby transforming the materials worked with.

ALLU technology quite literally transforms everything around it making businesses more productive, more environmentally-friendly and more profitable. With versatility at its very core, the ALLU Transformer will process just about anything sent its way. This includes materials like construction debris, topsoil, excavated soil and contaminated soil, as well as clay, peat, bark, compost, bio-waste, milled asphalt, coal, oil shale and limestone.

The ALLU Transformer is technology which redefines the way in which a business works. However, matching material and application to the most suitable ALLU Transformer can be a complicated task. There are many parameters to consider such as the size of the excavator/loading shovel, tonnage to be dealt with, required product size and the end use of the transformed material amongst other factors.

In order to help its clients ALLU announces the launch of the New ALLU Product Selector on the ALLU website (www.allu.net). It enables customers to match their base machine to the material they wish to process. When combined with the area of work, this will match the specific application to the most suitable ALLU Transformer.

Source: ALLU Group
John Deere Adds SmartGrade™ Capabilities to the 650K Crawler Dozer

John Deere SmartGrade™ is now available on the 650K crawler dozer, joining the other bigger models equipped with the technology. The integrated Topcon 3D-MC2 Grade Control System improves jobsite accuracy and work quality – delivering precise grading performance while eliminating vulnerable external masts and cables.

“The lineup of SmartGrade dozers are generating buzz in the industry, and many customers were vocal about their need for a smaller dozer with the integrated grade control technology,” said Andrew Kahler, product marketing manager, John Deere WorkSight™. “The introduction of the 650K SmartGrade answers those calls with all the same features and benefits as its larger dozer siblings. Customers also asked for multiple track configurations on all Smart-Grade offerings, and we answered with the availability of low ground pressure (LGP) or the extra long track (XLT) configurations on all 4 models.”

Since SmartGrade is integrated into the machines, it removes the need to install blade-mounted sensors and components daily, reducing setup time and allowing operators to get to work. Eliminating external cables to the masts reduces breakage, and the removal of the masts from the blade eliminates vulnerability to damage and theft.

The Auto SmartGrade feature identifies the soil type and easily adjusts the machine to new terrain, without operators having to adjust the blades manually. Operators can easily select the application type (grading, cutting, spreading), load setting (high, medium, low) and soil conditions (hard, packed, loose). This feature stops slippage before it occurs by automatically lifting the blade. It also reduces the number of passes required to complete a job, reducing the wear of the undercarriage over time. John Deere dozers equipped with SmartGrade technology are approximately 7% more accurate, than those with conventional masted systems.

Source: Deere & Company
John Deere Construction & Forestry

Komatsu Introduces the New D375A-8 Crawler Dozer

Komatsu America Corp. recently introduced the D375A-8 crawler dozer. The D375A-8 features an EPA Tier 4 final (T4f) certified engine that produces over 20% more horsepower while the dozer is traveling in the reverse direction. The additional horsepower yields faster cycle times and a productivity increase of up to 18%.

This mining-class dozer also comes with structural enhancements for increased durability of the mainframe and track frame. The D375A-8 also features an improved suspended undercarriage, larger viscous cab mounts, and a new air-suspension heated and ventilated seat for overall operator comfort.

“Whether its reclamation, large construction or production mining applications, the D375A-8 is the right machine for the job,” said Joe Sollitt, product manager, Komatsu America. “The durability improvements to this new model drive down the total cost of ownership while the more powerful T4f engine significantly increases performance and production. The improvements to the undercarriage, cab suspension, and operator interface will make D375A-8 operators more comfortable and productive throughout their shift.”

Source: Komatsu America Corp.

Demolition Work on High-Rise Building Goes Virtually Unnoticed

The Swiss agricultural company, Syngenta, formed in 2000 by the merger of Novartis Agribusiness and Zeneca Agrochemicals, is completely transforming its headquarters in the center of Basel. For this, a 54 m high tower block had to be removed. Due to the position of the building which is directly adjacent to the corporate campus as well as in close proximity to the highly frequented street Schwarzwaldallee and the Badischer Bahnhof (railway station), demolition using large demolition excavators was out of the question.

Urbanization is creating an ever-increasing demand for space in towns and cities. If, however, available space becomes very scarce, often the only option is to build upwards. The high-rise structures are sometimes positioned very close to one another being just a few meters apart. This leads in part to the creation of world-famous skylines but any subsequent demolition is far more complicated to carry out than for buildings that are individually positioned. The structures must be taken apart piece by piece with each floor being removed separately.

In order to minimize the emissions generated during the demolition of the Syngenta high-rise building and to avoid any damage to the surrounding buildings, ERNE AG relied on the PERI enclosure variant along with the help of the RCS Climbing Protection Panel. Thanks to this, the high-rise structure in the Basel city center has disappeared very unspectacularly: in spite of continuous demolition work and a weekly climb down from floor to floor, activities have been hardly noticed in the immediate vicinity.

In the tender submissions phase, the project managers together with a team of PERI engineers from Switzerland and Germany were already working on a detailed variant that protected the environment as well as the construction crew from demolition emissions in the best way possible. In the process, particular emphasis was placed on ensuring the safe execution of all work steps. The solution developed avoided workers being put at risk in any way as well as preventing construction materials and tools from falling to the ground at any point during the demolition process. Consequently, the high safety requirements of the client have been consistently fulfilled.

This was realized through the use of the RCS Climbing Protection Panel. In sync with the progress of the demolition work, this has been climbed downwards from floor to floor on a weekly basis providing the jobsite with an all-round gap-free enclosure. In addition, all work on the outer facade could be safely carried out from the integrated working platforms.

The RCS Protection Panel Units could be precisely adapted to match the building floor plan and the planned demolition process. At the start of the demolition work, RCS Climbing Platforms were pre-assembled and delivered to the jobsite as frameworks and then put together in accordance with the PERI assembly plans to form protection panel units. The enclosure system – covering 3 storeys of the building – was closed on the outside using trapezoidal metal sheeting and prevented dirt, dust and noise from escaping outwards. Apart from the fact that the demolition measures have hardly been noticed in the immediate surrounding area, the enclosure could also be used as highly visible advertising space.

Anchoring the RCS units to the existing structure presented a challenge as, compared to a new building, it was not possible to embed the climbing cones for the next climbing step. Together with demolition specialists from ERNE AG, a project-specific solution was developed for this purpose. As a result, both the horizontal and vertical loads could be realized using the roof of the building and the top floor, and secured externally by means of a lifting platform. Subsequent anchorage for the downward climbing procedure could be realized in the planned weekly demolition cycle using the lowest level of the RCS Climbing Protection Panel. Mounting the climbing units was carried out with the help of climbing shoes from the RCS Modular Construction System as well as project-specific supporting ele-
The MDA Power Clamping Nut from JAKOB Antriebstechnik

The current model of the MDA mechanical power clamping nut combines the simplest, manual operation at low tightening torques with the highest clamping forces. The interior can multiply the manual tightening torque by means of a robust gear transmission with special slide bearing. The self-locking mechanism guarantees maximum operational safety. A long life is ensured by the material design made of tempered steel with a corrosion-protective surface coating. Special endurance tests confirm these expectations. For example, the power clamping nuts were subjected to continuous load on a special test bench up to 10,000 load cycles.

The power clamping nuts MDA are available for thread sizes from M12 to M48 and can apply up to 180 kN clamping force. The fields of application of the MDA cover all fields of mechanical engineering in which high clamping are required. For example, clamping of pressing and punch- ing tools or workpiece clamping during machining. The MDA power clamping nut enables safer, more economical and more exact clamping. Under normal operating conditions, it is maintenance-free and can be used up to 200 °C. In special versions, it can be used even up to 400 °C.

Source: JAKOB Antriebstechnik
Model 210 equipment-mounted concrete drill attachments from E-Z Drill offer specially designed features for maximum productivity and low maintenance. The pneumatic attachments are ideal for full-depth road repair and patching projects. The series consists of 3 models: the 3-gang 210-3 EQ MT, 4-gang 210-4 EQ MT and 5-gang 210-5 EQ MT. They are compatible with most models of backhoes and excavators, and are ideal for full-depth road repair and patching projects.

A user-friendly, easily accessible control panel is mounted on the drill to provide convenient operation from the ground. The units are capable of drilling 16 mm to 63.5 mm diameter holes, at a depth of 457 mm. Each drill motor requires a minimum of 2.8 m³/min (100 cfm) for operation, with a minimum of 8.4 m³/min (300 cfm) required to power the smallest unit in the series, the 3-gang Model 210-3 EQ MT. To reduce air compressor requirements, an optional 454 l air tank is available.

Designed for quick, precise drill positioning, the 210 EQ MT drills feature a side-shift control. In contrast to similar equipment-mounted drills, the carrier operator is not required to position the unit in the exact drilling location. The drill must simply be placed in close proximity to the specified drilling area, and then can be quickly and easily adjusted to the target location with a toggle switch found on the control panel.

The side-shift feature further enhances productivity by allowing a second set of holes to be drilled without the need to move the drill, backhoe or excavator. Simply set the drill spacing at 60 cm, drill

MSA V-SHOCK™ Mini Personal Fall Limiters Now Available

Announcing the launch of the new V-SHOCK line of Personal Fall Limiters (PFL) for fall protection, the V-SHOCK Mini PFL is designed with rugged overmold housing to withstand abusive jobsite environments. It incorporates the ground-breaking radial energy-absorption technology found in the V-TEC line of self-retracting devices which eliminates the need for an energy-absorber outside of the housing making the unit more compact and lighter than other competitive options on the market.

The V-SHOCK Mini PFL is suitable for use in multiple work-at-height applications in industries such as construction, general industry and oil and gas.

Source: MSA
one set of holes, and engage the side shift. The unit will quickly and precisely move 30 cm to drill the second set, all without repositioning the drill or carrier. Drill spacing is adjustable up to 60 cm, and the drills offer lateral travel up to 35.5 cm.

To reduce operator effort and increase hole-drilling speed, the drills feature a “floating” bucket curl pins. Because the pins have a small range of motion, the drills can automatically level themselves. This eliminates the tedious and time-consuming process of manually leveling and positioning them with each movement.

For added convenience and productivity, the 210 EQ MT drills feature 360° rotation, which allows quick repositioning for drilling within the same patch. To enhance operator safety, the rotating feature includes a safety swivel lock. With the simple flip of a switch, the lock is activated and the drill is secured into place, ensuring safe transport and preventing potential harm to the operator.

A number of features have been incorporated into the 210 EQ MT drills to enhance durability and extend service life. Multi-point oil injection allows each drill to be lubricated individually from a single reservoir, ensuring each drill always has the proper amount of oil. This reduces wear on the motor and is more effective than a central oiling system, which does not offer individual lubrication points. An automatic drill shut-off further extends individual drill life by preventing dry firing.

The 210 EQ MT drills offer extra height adjustment to provide access to the center of a slab even in extreme asphalt overlay conditions. To complete the system, E-Z Drill offers a full line of drill bits and drill steel.

Source: E-Z Drill Inc.
Erkat contributes significantly to occupational health and safety on construction sites. Modern dust extraction systems combat dangerous dust particles as closely, simply and efficiently as possible. It is a known fact that dust can cause illness. However, the high level of danger is sometimes underestimated. Dust particles often penetrate deep into the lungs unhindered and irreparably damage the airways as well as lung tissue. Dust diseases (pneumoconioses) are the most common officially recognized occupational diseases.

On construction sites, in particular, there is a backlog demand of protective measures as most building materials contain quartz. This triggers the disease silicosis, which can even lead to lung cancer. According to a study in the U.S., more than 700 people in Los Angeles alone die every year as a result of the dust generated on construction sites. Dust particles at the workplace consequently come under the Ordinance on Hazardous Substances (Gefahrstoffverordnung), therefore exposure must be kept as low as possible.

The issue of dust extraction will always be topical on demolition sites. Numerous manufacturers are already working with the relevant systems to one simple principle: Water nozzles produce a fine mist, which is spread using a turbine and can achieve a range of up to 340°. However, the flaws are obvious. On the one hand, sensitivity to wind: The finely atomized mist is more unsteady when the range increases and no longer reaches the direct working environment in winds of force 1 and above (1,1 - 5,5 km/h). On the other hand, the correct setting of the systems with changing working conditions: In mechanical machines there is a high personnel expenditure; in electromechanical machines which are controlled via remote control or automatically, the procurement and maintenance costs are very high.

**PROXIMITY IS THE BE-ALL AND END-ALL**
Erkat is a dedicated pioneer in the development of a simple, robust and particularly reliable system, which meets the requirements of demolition companies. As interference by wind cannot be prevented, the mist must be brought as near as possible to the direct working environment. The adjustment of the dust extraction system should be as simple as possible and be carried out directly by the excavator driver.

By using proven components, Erkat developed a new universal console which is fitted with integrated water spraying nozzles. The mist is applied directly to the cutting head or the milling area, the hose is routed under the dipper arm for optimum positioning, and the water supply is fed via a separate tank outside the machine. To achieve effective dust extraction, a water pressure of at least 15 - 20 bar is required. Optionally, the universal console can be fitted with an additional supply line hydraulic filter to protect the hydraulic motor.

This new innovative system is already being used successfully with the transverse cutting heads of models ER 1500 and ER 1700. Further models are under development.

For indoor use where water spraying is not possible, Erkat also offers a new extraction system for dry dust removal system. A mobile system with dust extraction air tubes provides optimal dust extraction directly where dust forms (for example, surface milling).

Erkat is contributing significantly to the health and safety of construction workers with its developments. And there is no end in sight. The company is working on systems with differing numbers of water nozzles and is producing special modules for specific working conditions. Advance ment is reflected in the cutting head flushing system, for example, where the water nozzles are integrated into the rotating cutting head and the water supply is fed via the gear box. This enables a continuous mist to all sides. In addition, there is a special water spray system with ATEX approval, which was specifically designed for underground operation in potentially explosive atmospheres.

Source: Atlas Copco

Atlas Copco - Construction Equipment
Aquajet Introduces Powerful Aqua Cutter 710V for Heavy-Duty Concrete Removal

Aquajet Systems AB recently introduced its farthest-reaching unit, the Aqua Cutter 710V hydrodemolition robot. It is the largest of its kind and offers exceptional horizontal, vertical and overhead reach. The 710V comes equipped with Aquajet’s hallmark ceramic nozzles that last as much as 79% longer than standard steel versions. Its design makes it suitable for a wide variety of concrete removal tasks, such as renovation and bridge and road repair.

“We designed the Aqua Cutter 710V to give customers the ability to accomplish more work, even in hard to reach areas,” said Roger Simonsson, Aquajet Systems managing director. “The robot’s extended reach allows contractors to get at and remove concrete in areas other robots simply cannot.”

The 2,300 kg Aqua Cutter 710V uses 1,000 to 2,500 bar (14,500 to 40,000 psi) water jets to remove as much as 1 m³/h of concrete. Contractors adjust the robot’s stroke to control the depth of cuts and vary the pressure of the water jet depending on whether they are removing loose, deteriorated concrete or lowering the sound concrete to a predetermined depth. A valuable feature of hydrodemolition is that rebar is cleaned and descaled during the process, whereas alternative methods, such as pneumatic tools or milling machines, may damage the rebar or produce microfracturing in the remaining concrete.

Operators can control the 710V from a safe distance using the unit’s radio remote control, either wirelessly or with a hard wire. The remote communicates with the robot’s wheeled power control module.

Contractors use Aquajet’s unique cutting head, extended reach and its multi-axis 3D positioning system to efficiently operate on all horizontal, vertical and overhead areas that would be difficult to get at with other equipment. This includes straight up and down work, such as renovating walls, shafts and furnaces. In addition, the 710V easily removes concrete in corners that would be difficult to access with hand tools. Aquajet constructs the 710V’s steel mast in sections — an innovative design that gives the operator freedom to raise the front power head as high as 7 m – 3 m higher than the Aqua Cutter 410V – without additional support.

The 710V features a powerful diesel engine. Contractors can add an Aquajet Hybrid Kit, which easily attaches to a diesel-powered Aqua Cutter robot for electric operation in applications where diesel engines are not allowed, such as parking garages, inside buildings or in other urban environments. The kit uses an intelligent system to automatically disengage the onboard diesel engine.

Aquajet robots feature unique ceramic nozzles specifically designed for demanding hydrodemolition applications. The highly efficient nozzles last 300-350 hours, depending on the water quality. Standard steel nozzles on competitive equipment typically have a lifetime of 20-40 hours.

All Aqua Cutter robots feature Aquajet Systems’ patented Equal Distance System. EDS keeps a preset distance from the nozzle to the concrete surface, regardless of the angle of the water jet, allowing for maximum efficiency and productivity. Systems without EDS lose as much as 20% of the power before the water hits the concrete, greatly reducing productivity and increasing waste.

The 710V robot fits into Aquajet Systems’ 7 m Power Packs. The large metal containers include a high pressure Hammelmann pump, large capacity diesel engine and control system, with a convenient storage area for the robot.

Source: Aquajet Systems AB

TT Technologies Introduces Updated Grundopit Pit-Launched Mini Directional Drill

TT Technologies’ redesigned Grundopit pit-launched mini directional drill is well suited for difficult fiber-to-the-home and utility service line installations in tight working conditions. The unit is compact, 137 cm long, 109 cm wide and 145 cm tall. The Grundopit delivers 60 kN (13,489 lb-ft) of thrust and pull back and 750 Nm (553 lbf-ft) of torque with bore length up to 45.7 m. The Grundopit is an ideal entry-level system for utilities, cable industries or as a supplement to larger units.

The new unit features a patented instant plug-in lock that holds the drill stem in place. The instant plug-in lock system allows new drill stems to be added easily by engaging the new drill stem at the rotational motor. This means that drill stems are only screwed into the lead stem and not the rotational motor, cutting the time it takes to add a stem in half.

Components include a 2-part bore rig, patented drill stem plug in, 30 drill stems, bore head with angled steering surface, backreamer and swivel coupling, hose package and power pack.

Source: TT Technologies
Mack Trucks Signs MOU with Lytx

At the Waste & Recycling Expo Canada, held October 25-26, 2017, in Niagara Falls, Ontario, Mack Trucks announced it has entered into a memorandum of understanding (MOU) with Lytx, Inc., a leading provider of video services that help enhance the safety, efficiency, productivity and profitability of fleets.

Mack is exploring Lytx DriveCam, an in-cab camera system which records internal and external events when an abrupt lane change or hard braking occurs, as well as Lytx Video Services Technology, which continuously records external events regardless of a trigger situation.

Details regarding the offerings under this agreement have not yet been established, but Mack is planning to incorporate the systems into its Mack LR and TerraPro refuse models.

David Pardue, vice president of connected and uptime services at Mack Trucks, announced a memorandum of understanding with Lytx at a press conference during the Waste & Recycling Expo Canada.

“"We are pleased to announce an agreement with Lytx," said David Pardue, vice president of connected vehicles and uptime services for Mack Trucks. "Lytx DriveCam technology can help improve the safety of those on the roadway, as well as inform fleets of drivers that may need some coaching. Lytx Video Services Technology also can help with theft prevention, jobsite monitoring and driver safety."

Source: Mack Trucks, Lytx, Inc.
A legacy of hard-working trucks since 1897

A newcomer in the Class 7 & 8 Cabover category

The oldest North American truck brand, Autocar® enters the Class 7 & 8 cabover market with a range of trucks designed for heavy work such as road maintenance and heavy pick-up and delivery, the Autocar Xpert.

The Autocar Xpert is designed to ensure the best sight lines in any cabover or conventional truck. The spacious cab features a huge windshield, side, and rear windows.

The Autocar Xpert can be equipped with an OEM dual steering system. With all controls placed either in the middle, or duplicated and mirrored on both sides.

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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**Electronic Kingpin Saves Weight and Improves Maneuverability**

The TriDec EF-S electro-hydraulic/electronic kingpin steering system, available from JOST UK can be fitted onto trailers requiring an extremely low trailer neck, such as milk tankers, bulk trailers, low loaders and trailers of monocoq construction.

Unlike mechanical and hydraulic steering systems, the EF-S system does not require a fifth wheel unit. Instead it needs only a kingpin to which a steering angle sensor has been fitted, which can represent a significant weight saving because of the lack of a heavy hydraulic pump, or even heavier alternator. This will lead to a consequent improvement in fuel economy.

The EF-S can also contribute to improved vehicle handling at slow speeds. The EF-S system directly follows the truck’s movement for even the smallest steering input, this means that there is no delay in steering reaction. The benefits of this are particularly noticeable at the loading bay, where the driver will find improved positioning accuracy.

Significantly, at higher speeds on straight roads, the EF-S locks the wheels into the straight-ahead position, helping to ensure steady and stable running in the traffic lane.

The design of the EF-S is such that the kingpin wedge is equipped with a patented self-centring mechanism, which prevents damage whilst coupling the tractor and trailer.

JOST supplies the full range of TriDec steering systems – mechanical, hydraulic and electronic – for both turntable and kingpin-steered axles. Its sales team can provide expert guidance to help identify the most appropriate solution for any given vehicle. Helping to save on fuel consumption, tyre wear, vehicle maintenance and damage repair and mounting time while improving maneuverability.

Source: JOST UK Ltd.

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**Toyota to Build the World’s First Megawatt-Scale 100% Renewable Power and Hydrogen Generation Station**

Toyota Motor North America, Inc. (TMNA) will build the world’s first megawatt-scale carbonate fuel cell power generation plant with a hydrogen fueling station to support its operations at the Port of Long Beach. Announced recently at the Los Angeles Auto Show, the Tri-Gen facility will use bio-waste sourced from California agricultural waste to generate water, electricity and hydrogen.

When it comes online in 2020, Tri-Gen will generate approximately 2.35 MW of electricity and 1 t/d of hydrogen, enough to power the equivalent of about 2,350 average-sized homes and meet the daily driving needs of nearly 1,500 vehicles. The power generation facility will be 100% renewable, supplying Toyota Logistics Services’ (TLS) operations at the Port and making them the first Toyota facility in North America to use 100% renewable power.

“For more than 20 years, Toyota has been leading the development of fuel cell technology because we understand the tremendous potential to reduce emissions and improve society,” said Doug Murtha, group vice president-Strategic Planning. “Tri-Gen is a major step forward for sustainable mobility and a key accomplishment of our 2050 Environmental Challenge to achieve net zero CO2 emissions from our operations.”

In addition to serving as a key proof-of-concept for 100% renewable, local hydrogen generation at scale, the facility will supply all Toyota fuel cell vehicles moving through the Port, including new deliveries of the Mirai sedan and Toyota’s Heavy Duty hydrogen fuel cell class 8 truck, known as Project Portal. To support these refueling operations, Toyota has also built one of the largest hydrogen fueling stations in the world on-site with the help of Air Liquide.

Tri-Gen has been developed by Fuel-Cell Energy with the support of the U.S. Department of Energy, California agencies including the California Air Resources Board (CARB), South Coast Air Quality Management District, Orange County Sanitation District, and the University of California at Irvine, whose research helped develop the core technology.

Source: Toyota Motor North America, Inc.
Konecranes Training Institute Unveils New Campus, Expanded Lab Space

Konecranes Training Institute headquarters in New Berlin, Wisconsin, moves from original location to new state-of-the-art facility.

Konecranes Training Institute has raised the level of its game in a major way with a move from the original location of 43 years to a new 1,200 m² facility adjacent to Konecranes service branch in New Berlin. Global lifting leader Konecranes also has its nuclear and modernization groups located nearby.

According to general manager Jim Lang, the new campus represents the next generation of technical capability for an organization that trains more than 10,000 crane professionals every year. Improving safety at customer facilities is at the forefront of the curriculum at Konecranes Training Institute.

"With the new facility, we focused on building everything to enhance the customer experience," says Mr. Lang. "All of our new classrooms are as big as the largest in the old facility. Every part of the new campus is task-specific and professionally designed. Our interactive audio-visual equipment is state-of-the-art, high-resolution and easily compatible with all computers, specified to enhance the learning experience for our students."

Jim Lang says the Institute’s 700 m² lab has 50% more space plus a 30% higher ceiling than the former facility, giving students much more room to experience the challenges and capabilities of the equipment they train on.

"Our new lab will feature a 4.5 t top-running, double-girder Smart CXT crane with the full gamut of available Konecranes Smart Features for safety and productivity," says Mr. Lang. "Students will be able to train in programming Protected Areas, and become familiar with Active Sway Control, Target Positioning, Hook Centering, Snag Prevention and other more unique modalities for crane efficiency."

A typical class at Konecranes Training Institute usually lasts 3 to 4 days, with class sizes normally including about 10 trainees, with a maximum of 15.

“Our classrooms are large enough to accommodate more people, but we want to maintain a good student-to-teacher ratio," says Jim Lang. “We have gotten very positive comments from customers who have been through our first few classes in the new facility. The students really appreciate being in a building that has been designed just for them."

Director of Training Joe Otten noted that the new campus represents a substantial investment from Konecranes, with an estimated US$700,000 ($900,000) dedicated to the project to date. “We have 3 other Konecranes divisions in our new location totalling 6,500 m²,” he stated. “This allows us to more easily have other Konecranes experts available to meet with students when needed."

Konecranes Training Institute teaches 35 different courses offered year-round at the new campus. The most popular, including Overhead Crane Inspection, Inspection Refresher, Crane Safety Management, Rigging Fundamentals and Operator and Rigging Train-the-Trainer courses are also offered at 6 regional centers in Phoenix, Arizona, Mobile, Alabama, Springfield, Ohio, Indianapolis, Indiana, Miami, Florida and Sudbury, Ontario, as well as a rotating schedule of 40 cities nationwide.

Source: Konecranes Region Americas
**Appointments**

**Motorenfabrik Hatz** introduces its new CEO Bernd Krüper. The business administration graduate takes over the position from Michael Schweigert who fundamentally realigned the company during the recent years, successfully repositioned it in the market and opened up new markets with the promising H-series engines.

Bernd Krüper comes from MTU Friedrichshafen and Rolls-Royce Power Systems. He is very well noted for his many years of market experience and comprehensive expertise for propulsion technology in the off-highway and automotive segments. As MTU vice president he was heading the construction & agriculture business which is also very important for Hatz. Furthermore, Mr. Krüper’s duties at Rolls-Royce Power Systems and MTU also included the heading of marketing and product management after which he very successfully was in charge of worldwide operations as vice president Industrial Business and president Greater China.

Source: Motorenfabrik Hatz GmbH & Co. KG

**Terex Cranes** announces Bill Cox as the new sales director for Terex Cranes North America. In his role, he will work with Terex Cranes’ senior management to set and drive equipment sales strategy throughout the U.S. and Canada, lead the Terex Cranes internal and field sales teams, and interact with Terex Cranes distributors and customers. He replaces Mark Phillippi, who will retire at the end of the year.

Bill Cox began his construction sales management career in 1993 as district sales manager for Stone Construction Equipment, Inc., working with customers and distributors throughout a five-state territory. He worked for Terex briefly in the early 2000s, managing sales and distributor development for Genie, and the Terex Light Construction division. Most recently, Mr. Cox served as a crane equipment sales and distributor development representative for Tadano Mantis Corporation.

After 16 years with Terex, Mark Phillippi will retire from Terex Cranes at the end of December. His career with Terex began in August of 2001 as the general manager of Terex Asset Service. Making the transition to Terex Cranes, he started as vice president of Crane Financial Sales and then managed field sales for the central region. He retires as the director of sales for the south, west and Mexico territories, which he held since 2009.

Reflecting on his career, Mark Phillippi comments, “Working with a great team and wonderful customers, my time in the cranes industry and with Terex has been much more fun than work. I enjoyed working in this industry and will cherish the friendships made over the years, both at Terex and in the field with our distributor representatives and customers.”

Source: Terex Corporation

**VMAC** recently announced changes to the organization of its senior management team, appointing former president Jim Hogan to CEO, and Tod Gilbert, former executive vice president to president.

“These changes are an important next step in the company’s exciting future as VMAC continues to differentiate itself as the innovative leader in mobile compressed air,” says David Elgie, VMAC’s executive chairman. “Mr. Hogan will continue to oversee key strategic matters, and retain his board of directors responsibilities while Mr. Gilbert will take on responsibility for the company’s day-to-day business activities.”

VMAC was founded in 1986 by Jim Hogan and Tony Menard. Over the years Mr. Hogan has been a leader of innovation at VMAC, encouraging research and development, and improvements to current product lines, leading to the company’s success. With this change in position, he will again focus on developing innovative technology, R&D initiatives, and process improvement with the support of VMAC’s engineering and design team.

Source: VMAC Global Technology Inc.
Agenda

Landscape Ontario’s Congress ’18
January 9 - 11, 2018
Toronto, ON Canada

InfraTech
January 10 - 12, 2018
Essen, Germany

World of Concrete
January 23 - 26, 2018
Las Vegas, Nevada USA

21st Edition of the Construction Re-Cycle Convention
February 13 - 14, 2018
Drummondville, QC Canada

bautech 2018 - International Trade Fair for Building and Construction Technology
February 20 - 23, 2018
Berlin, Germany

PDAC 2018 International Convention
March 4 - 7, 2018
Toronto, ON Canada

World of Asphalt 2018 / AGG1 2018
March 6 - 8, 2018
Houston, TX USA

The Work Truck Show 2018
March 6 - 9, 2018
Indianapolis, IN USA

BAUMA CONEXPO AFRICA
March 13 - 16, 2018
Johannesburg, South Africa

Atlantic Heavy Equipment Show
April 5 - 8, 2018
Moncton, NB Canada

INTERMAT Paris
April 23 - 29, 2018
Paris, France

Expo Grands Travaux
April 27 - 29, 2018
Montreal, QC Canada

IFAT Munich
May 14 - 18, 2018
Munich, Germany

bauma CTT RUSSIA 2018
June 5 - 8, 2018
Moscow, Russia

AORS Municipal Trade Show
June 8 - 7, 2018
Belleville, ON Canada

Hillhead 2018
June 26 - 28, 2018
Buxton, England

The 11th annual WSI conference and expo
October 3 - 5, 2018
Las Vegas, NV USA

Waste & Recycling Expo Canada/Municipal Equipment Expo Canada
October 24 - 25, 2018
Toronto, ON Canada

MATEXPO 2019
September 11 - 15, 2019
Courtray, Belgium

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October 8 - 11, 2019
Munich, Germany

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August 26 - 29, 2020
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Selling price $125,000

Dynapac planer PL500TD 2013
150 hours
Selling price $159,000

Dynapac roller CC4200 combi 2017
48 inches/65 inches
Selling price $179,000

Many rollers from 35 to 51 inches available
Selling price starts at $25,000

Dynapac paver F1000T 2012
10 à 20 FT
Selling price $295,000

ALSO AVAILABLE:

- ROAD WIDENER LBP RW35A 2013
  Special price $98,500

- DYNAPAC ROLLER CC424HF 2012
  Special price $125,000

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