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A Brief Word...

November is an odd month, a naturally somber month made more so due to Remembrance/Armistice Day.

The weather sets the tone, not summer nor winter. As someone who relies on the weather you might be hoping for more of the former and less of the latter.

November is also that critical time for the beginning of winter maintenance work and the kitting out of equipment and crews. It is also a chance to reflect on the past season and to ponder what you might do differently next year before you get distracted by Christmas and Year End activities.

InfraStructures is your go to tool to help you assess what products or technologies may help you complete your current tasks or make future ones less stressful and profitable.

In the current issue you will learn of innovations from landscaping to pavement maintenance and a myriad of applications in between.

Take your November issue in hand and enjoy a last bit of warm sunshine to ponder our pages before the cold begins to bite.

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On the cover: The Merlo 25.6 is an ultracompact machine ideal for working around backyards.

The small telehandler is fast and stable, even without using a counterweight.

MCCLOSKEY INTERNATIONAL ANNOUNCES NEW DIVISION

Screening and crushing industry leader McCloskey International recently announced the launch of McCloskey Washing Systems (MWS), a new business division focused on washing and classifying across multiple applications. The new unit will design and manufacture a full range of mobile, modular and static material and mineral washing equipment.

While McCloskey International has been producing equipment for the quarrying, recycling, mining and industrial sand sectors for over 30 years, this new division has been created to provide 100% focus on the development of class-leading innovative and efficient equipment for washing and classifying material and mineral products.

Speaking ahead of the launch, McCloskey International's president and CEO Paschal McCloskey said: "Our customers are

always looking for more modern, flexible and cost-effective solutions. Our customer-driven approach to product development has led us to invest significantly in the establishment of this new division, with the aim to be the design and manufacture of high quality washing equipment that is easy to install, maintain and operate."

The products made by the new division will deliver significant advantages to customers, including lower cost of ownership, lower cost of production, and making more projects viable for their business.

"Global requirements are becoming more stringent, and McCloskey International is in the perfect position to provide innovative equipment to assist customers in meeting these demands," said Sean Loughran, director, McCloskey Washing Systems. "The entrepreneurial spirit that McCloskey was founded on is very much alive; the business continues to be driven by passion to design and build the best equipment. This same ethos exists within MWS. Our team of highly skilled and experienced Washing Design Engineers have spent the past 12 months developing an impressive range of washing equipment that, I am delighted to announce, is ready to be launched onto the world stage."

MWS is on target for the opening of a large state-of-the-art manufacturing facility in Co. Tyrone, Northern Ireland in April 2017.

With a host of international trade shows and customer open days planned, the remainder of 2016 and all of 2017 is going to be a busy time for MWS. Introduction of the division and product line within the global dealer network has begun, and will continue leading up to the formal display of the division's capabilities at CONEXPO/CON-AGG 2017, March 7-11 in Las Vegas.

"These are exciting times at McCloskey and I am delighted to be leading this new division," added Sean Loughran. "With our core focus on developing highly innovative and efficient equipment and our company-wide emphasis on supporting our customers, I have no doubt MWS will quickly be seen as the market leader in the Washing industry."

Source: McCloskey International

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CATERPILLAR SANFORD PLANT REACHES QUARTER-MILLION-MACHINE MILESTONE

Established in 1999, the Caterpillar production facility in Sanford, North Carolina,

recently reached a significant milestone when the 250,000th machine manufactured at the facility rolled off the assembly line. That machine, a Cat® 299D2 XHP compact track loader, with custom paint and commemorative emblems was created to celebrate the occasion and will be prominently displayed at CONEXPO-CON/AGG to be held in Las Vegas, in March 2017.

The very first machine off the production line at the Sanford facility in 1999 was a rubber tire skid steer loader, which brought industry-leading features to the market, including intuitive, operator-friendly, hydraulic joystick controllers that replaced the more common mechanical controls used by competitive machines, says Gareth Jones, Engineering manager.

Now, 17 years and 250,000 machines later, production capacity at the Sanford facility has increased significantly – and the machines produced there have also changed significantly.

“Over time, customers have come to expect more from their machines with regards to performance and comfort,” says product specialist, Kevin Coleman. “When our first machines were produced, air conditioning wasn’t an option that was available on a skid steer loader. Now, customers not only expect air conditioning, but they want a sealed-and-pressurized operator’s environment, along with features that they routinely expect in their personal vehicles, such as Bluetooth radios, heated seats, and rearview cameras.”

Brad Crace, Sanford-facility operations manager, sums up the sentiment of the occasion: “We can’t thank our customers enough for the trust they’ve placed in us to continue producing these great machines. Our customers are changing the world. Whether working in construction, road repair, demolition, landscaping, or agriculture – in any number of varied applications—our customers are making a difference, and we’re grateful they’re using Cat skid steers, multi-terrain, and compact track loaders to do so.”

Source: Caterpillar

GOODYEAR EXPANDS TIRE FACTORY IN CHINA

The Goodyear Tire & Rubber Company recently announced it has broken ground on a US\$485 million (\$650 million) expansion of its state-of-the-art tire factory in Pulandian, Dalian, China. Goodyear chairman, CEO and president Richard J. Kramer took part in a ceremony with Lu Lin, deputy mayor of Dalian, China.

When completed in 2020, the expansion

will increase the plant’s capacity by about 5 million tires a year, enabling Goodyear to meet the strong and growing market demand for premium, large-rim-diameter consumer tires in China and the Asia Pacific region. By 2020, Goodyear expects tires with rim diameters of 17” or greater to account for nearly 60% of its replacement tire sales volume in China.

“This investment in our Pulandian factory speaks to our long-term strategy

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of pursuing sustainable growth in the Asia Pacific region and increasing Goodyear's presence in high-value segments of the global tire market that are growing at rates above the total industry where we can capture the value of our brand," said Mr. Kramer. "The city of Dalian has been supportive of our developments here, and we look forward to continuing this fruitful partnership."

"Goodyear's latest investment in Puland-

ian strengthens our presence in China. As one of our most important and key growth markets, our global brand and innovative product portfolio in China will give us a competitive edge," said Chris Delaney, president, Asia Pacific.

Goodyear was the first global tire manufacturer to enter China when it invested in a tire manufacturing plant in Dalian in 1994. The company moved production to the new Pulandian factory in 2012

and opened its new China Development Center on the Pulandian campus in 2015 to increase the speed and efficiency of developing high-quality premium tires for China-based auto manufacturers.

Source: The Goodyear Tire & Rubber Company


WATER HARVEST PROTOTYPE – ROXTON ROAD PARKS

As many other large municipalities, the City of Toronto, Ontario, tries to find ingenious ways to handle stormwater on city property in a sustainable manner. This is important to ensure future generations can enjoy this beautiful city as we do today.

When a local residents association asked for support to retrofit Fred Hamilton Park with a stormwater project, city councillor Mike Layton was all in; the project consisted in a water reservoir to support a community garden and increase awareness of the natural water cycle. It also helps redirecting water from the city's storm drainage system.

The project, launched in May 2016, was funded by Live Green Toronto and planning, approvals and earthworks was assured by the city under the supervision of Doug Bennet from Parks, Forestry and Recreation department. Project support was also provided by Toronto Region and Conservation Authority, Enbridge. ACO Canada donated and installed the water reservoir – ACO Stormbrixx stormwater management system.

The project is already a huge success with the local kids having a lot of fun with the manual water pump!

Source: ACO Systems, Ltd  2607

IPS TAKES HOME AN AWARD AT THE AORS MUNICIPAL TRADE SHOW!

IPS was proud to participate once again in this year's Association of Ontario Road Supervisors (AORS) trade show. Held at the West Nipissing Community & Recreation Centre in Sturgeon Falls in June, this year's AORS played host to over 200 exhibitors and 2000 public/private sector public works employees – the largest show of its kind. IPS was able to showcase its versatile portfolio of brands and products including: Honda Engines, Honda-powered Koshin pumps, DEWALT pressure washers and generators, Simpson pressure washers, and Chicago Pneumatic compaction equipment. IPS also displayed Alkota



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"This year's AORS was a huge success for IPS, and we are delighted to have received an award for Best Outdoor Display," says David Jewell, IPS' Compaction Equipment Business Manager. "This award is designed to acknowledge booths that exemplify exceptional appearance information and marketing excellence. Congratulations to our Sales Team, who were on hand to receive the earned accolade!"

Together with the participating local Association, AORS provides an opportunity for public/ private sectors public works employees to share information and technical developments in material, services and equipment, required to build and maintain municipal roads and core infrastructure projects. AORS is a great way to develop new business relationships and build on existing ones.

Source: International Power Systems

 1347

Avant Tecno USA Debuts New Products at GIE+EXPO 2016

For the 5th consecutive year, Avant Tecno USA returned to GIE+EXPO with an expanded line of machines and attachments, a larger infrastructure, broader dealer networks, a stronger position in the marketplace, and larger indoor and outdoor exhibit spaces. GIE+EXPO was held October 20-21, 2016, in Louisville, Kentucky.

In addition to showcasing Avant's 400, 500, 600 and 700 Series models available now with over 150 attachments, Avant introduced its new 200 Series line and the 755i to the North American market.

The Avant 200 Series multi-purpose loaders are ideal for homeowners as well as property maintenance, ground care, and landscaping professionals working on projects where space is limited and a lightweight machine is necessary. This new series consists of 3 models. Avant 220 is equipped with a 20 hp gasoline engine and is a real multi-tasking machine for homeowners. When more power is needed, the Avant 225 with new 25 hp Kohler EFI gasoline engine and auxiliary hydraulics oil flow as high as 42 l/min. The Avant 225 LPG is equipped with a low emission LPG engine and is suited for multiple indoor operations such as refurbishing and demolition jobs where low machine weight is essential.

The 755i | 760i machines are the greenest in the Avant line. Both machines are engineered to deliver maximum power and torque with outstanding fuel economy and low emissions. The Kohler KDI engines meet the Tier 4 final emissions regulations without the use of a diesel particulate filter (DPF) or the need for diesel exhaust fluid (DEF). The result is high power performance, increased efficiency with quiet, smooth operation. The Avant 755i and 760i are turbocharged with 57 hp Kohler KDI Tier 4 diesel engines. Their travelling speed are 16.9 km/h and 30.5 km/h respectively.

Avant's 5-series models offer the same compact, articulated, multi-purpose solutions for many types of projects during the seasons. These versatile machines have multiple cab options, provide excellent lift to weight ratio, offer low operating and maintenance costs and are turf-friendly for projects in landscaping, tree removal, snow removal, municipalities, and demolition/construction.

Avant Techno USA will also be exhibiting at Landscape Ontario's CONGRESS, January 10-12, 2017 in Toronto, Ontario.

Source: Avant Tecno USA



 728

BENTLEY SYSTEMS AND TOPCON JOIN FORCES TO ADVANCE CLOUD SERVICES FOR "CONSTRUCTIONEERING"

Topcon Positioning Group and Bentley Systems recently announced their joint intentions to connect cloud services for constructioneering.

Each company will bring to market cloud-based solution offerings, which include services of both and provide construction workflows not previously possible. Initially, Bentley Systems will offer its ProjectWise CONNECT Edition users seamless connectivity with MAGNET Enterprise, and Topcon will incorporate ContextCapture image processing for its mass data collection via unmanned aerial systems (UAS).

Compared to traditional workflows between design and construction in which data from survey and digital engineering models can be lost and inefficiently recreated, constructioneering empowers engineers to extend their role within both surveying and construction.

Cloud services first bring the construction site conditions to the engineers so their work starts with an accurate model of the current 3D context – as captured by Topcon UAS photogrammetry and laser scanners – and then processed into engineering-ready 3D reality meshes by Bentley's ContextCapture software. Cloud services subsequently convey the engineers' work directly to construction processes in the field. This automation process—achieved through the connection between Topcon MAGNET cloud service and Bentley's ProjectWise CONNECT Edition cloud services—improves project delivery, with design performed in context, and the resulting digital engineering models feeding the 3D machine control that guides the construction machinery.

Topcon and Bentley expect to expand the constructioneering workflow to further applications for infrastructure services.

Source: Topcon Positioning Group, Bentley Systems

SIEMENS CANADA LAUNCHES NEW BRAND CLAIM: *INGENUITY FOR LIFE*

Siemens Canada recently launched the company's new global brand claim: *Ingenuity for life*, reinforcing the company's commitment to engineering the future of Canada ahead of the country's 150th birthday next year. *Ingenuity for life* highlights

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how Siemens' vast engineering know-how and leading technology combine to create lasting value for customers, citizens and society – something Siemens has been doing in Canada for more than 100 years.

"*Ingenuity for life* is about how technology connects Siemens to society. We understand Canada's current and future challenges and see them as opportunities

to make life better for Canadians," said Siemens Canada CEO Robert Hardt. "Whether it is securing our energy future, building smarter cities or inspiring our future workforce, together with our customers we positively impact people's lives and that commitment to powerful innovation is the purpose that drives us."

"As a b-to-b company our strategy in

Canada is to showcase what Ingenuity for life means through the eyes of our customers, telling the narrative of how we're helping them shape the future and next 150 years for Canada. Our claim enables us to express the impact that Siemens makes on what matters to society in concrete terms," said Ann Adair, vice president Corporate Communications for Siemens Canada.

Siemens in Germany, the U.S. and the UK among others have also unveiled the brand in 2016 to coincide with the 200th birthday of founder Werner von Siemens and celebrating what Siemens has stood for since its beginnings: engineering expertise, genius, innovation and a sense of responsibility.

Fittingly, Ingenuity for life in Canada will be formally introduced at the opening reception for the 2016 Ontario Economic Summit, sponsored by Siemens. The theme of the 2016 conference is Building Prosperity by Strengthening the Innovation Ecosystem.

Source: Siemens Canada Limited

John Deere Updates Maneuverable, Reduced-Tail-Swing Excavators

The John Deere excavator lineup continues its transformation with the updating of the 135G and 245G LC reduced-tail-swing excavators. Built with the same toughness as their larger production-class counterparts, these machines deliver the productivity, uptime and low daily operating costs customers know and trust with the John Deere G-Series.



Whether up against a wall or between a rock and a hard place, the 135G and 245G LC excavators can easily maneuver through any project, from urban renewal to street repair to underground utility construction. Equipped with durable EPA Tier 4 final (T4f) diesel engines, the excavators meet rigid emission regulations, so operators can tackle any project without compromising power, reliability or ease of operation. The 135G boasts 101 hp, while the 245G LC nets out at 159 hp.

"The tail-swing radius of the 135G and 245G LC excavators helps contractors work through the challenges of tight operating spaces with the ability to work in and around obstacles," said Mark Wall, excavator product marketing manager, John Deere Construction & Forestry. "Aside from the emissions update, we've used this opportunity to add a few features based on customer feedback, including a standard rearview camera, standard factory-installed auxiliary hydraulics with programmable attachment modes and upper structure handrails that provide multiple points of contact when accessing the engine compartment."

The 135G and 245G LC maximize efficiency with a Powerwise™ III hydraulic system that balances engine performance with hydraulic flow for predictable operation. Three productivity modes let operators choose the digging style that fits the job. High productivity delivers more power and faster hydraulic response to move more material, power delivers a balance of power, speed and fuel economy for normal operation, and economy reduces top speed and helps save fuel.

Fleet managers looking to get the most out of their excavators can rely on their John Deere dealers to provide Ultimate Uptime featuring John Deere WorkSight. With Ultimate Uptime, owners receive predelivery and follow-up inspections; 3 years of JDLink™ telematics, machine health prognostics and remote diagnostics, and programming capability; and the ability to add dealer-provided uptime solutions to customize the package to individual needs.

Source: Deere & Company



1800/1828/1928

SIEMENS TO SUPPLY MAJOR COMPONENTS FOR SASKATCHEWAN POWER PLANT

Siemens is filling an order from Burns & McDonnell Canada to deliver a gas turbine, a steam turbine, generators and related electrical equipment for installation at SaskPower's planned Chinook Power Station – a 350 MW natural gas-fired power plant to be located near Swift Current, Saskatchewan. The facility, slated for operation in the 4th quarter of 2019, will be able to power about 300,000 homes.

"We are pleased to supply our industry-leading turbines, generators and electrical equipment for this modern power infrastructure project," said John Gibson, senior vice president of sales North America at Siemens Power and Gas. "Harnessing cleaner-burning and affordable natural gas, this fuel-efficient facility will deliver reliable power while also helping to reduce emissions. We look forward to continuing to use our innovation to help grow Canada's thermal power market."

Siemens, which offers a broad spectrum of products and solutions for environmentally-compatible and resource-saving power generation, will supply one SGT6-5000F gas turbine, one SST-900 steam turbine, one SGen6-1000A generator, and one SGen6-100A generator. The equipment will be produced in Charlotte, North



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Carolina, and Goerlitz and Erfurt, Germany.

The combined cycle facility will pair the Siemens Gas and Steam turbines to make more efficient utilization of the fuel consumed by the power plant. This will be accomplished by using the exhaust heat from the gas turbine to generate steam to power the steam turbine, greatly improving overall power-plant efficiency.

Source: Siemens Canada Limited

CLARIANT MINING SOLUTIONS INCREASES FOOTPRINT WITH ACQUISITIONS AND EXPANDED FACILITIES

Clariant recently announced a number of investments which increase the footprint of its Mining Solutions business and further improve its product portfolio, customer base and technical expertise.

The company has agreed to acquire Chemical & Mining Services, Pty. Ltd, a provider of specialty chemicals and technical services to mining industry clients

located primarily in Australia. Clariant has also acquired the specialty mining chemicals business from SNF Flomin, a U.S.-based subsidiary of the SNF Group which manufactures and distributes reagents for the minerals processing industry. No further terms of both acquisitions are to be disclosed.

Additionally, Clariant Mining Solutions has opened a new facility and expanded one of its current facilities in North America. The company has inaugurated



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Hirschmann MCS Presents New Camera Indicator

Hirschmann MCS is pleased to introduce a new camera indicator that can be used on all types of mobile equipment. The system provides a direct view of the application (ie: drum rotation) allowing the operator to have a constant visual of any situation.



The camera is compatible with Hirschmann's 4.3" and 7" color graphic vSCALE consoles and offers the option of horizontal or vertical camera orientation. It also features an IP68 / IP69k protection class rating and is shock and vibration resistant. The new camera kits include the 11 cm or 18 cm color graphic console, 3.6 m power harness, camera, magnetic camera mount, and required cable assemblies.

Hirschmann's MCS division supplies information, monitoring, and control systems that meet OEM and aftermarket requirements in lifting applications.

Source: Hirschmann Automation and Control

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the Mining Application and Development Center in Tucson, Arizona, and it is now the regional hub for mining research. The close proximity of Clariant to key mining customers will allow for more and better cooperation on customized products and solutions. Furthermore, its current facility in Reserve, Louisiana, has been expanded and is now able to also blend chemicals for the mining industry. The additional production location allows Clariant to improve its customer service thanks to a stronger and more secure supply chain.

"These investments strengthen our global position as a leading supplier of specialty chemicals to the mining market. Chemical & Mining Services current business and products are a complementary strategic fit to our own and also provide us with specialized technical expertise. SNF Flomin, while U.S.-based, supplied to customers worldwide and thus allows us to expand geographically and serve our customers with an increased product and service portfolio. Finally, the investments in North America enable us to become a stronger player in this region's mining market and better support our customers by stepping up both our research and supply chain capabilities," said John Gordon, of Clariant Mining Solutions.

Source: Clariant International Ltd

CERVUS EQUIPMENT OPENS NEW TRANSPORTATION DEALERSHIP IN OTTAWA

Cervus Equipment recently opened a new transportation dealership in Ottawa, Ontario, making it the 73th Cervus location across Canada, Australia and New Zealand.

"We're excited to open our doors in Ottawa and deliver exceptional end-to-end truck services," says Gara Hay, general manager, Cervus Transportation. "With an expanded presence, we're better able to serve customers in Ottawa and surrounding areas with premium truck products, parts and support for all makes and models."

The opening of the Ottawa dealership strengthens the network of support for Cervus transportation customers with locations spanning major trucking routes throughout the province.

The dealership, located just off Highway 417 and Highway 7 in Carp, is open Monday to Friday.

Source: Cervus Equipment Corporation

EDMONTON'S FIRST MODULAR SHIPPING CONTAINER APARTMENT BUILDING BREAKS GROUND

Edmonton-based Step Ahead Properties Ltd. gathered with Ladacor Advanced Modular Systems™ at their Westgate Manor site in Glenwood, Alberta, to launch construction of an exciting new affordable housing development, which will see the infill addition to the property of 20 units of purpose-built affordable rental housing.

This development will be a first of its type in Edmonton to use repurposed shipping-containers as part of an in-

novative modular building technology. Calgary-based Ladacor Advanced Modular Systems™ will fabricate the shipping containers into factory-finished modules that will be transported to the site and then craned into place.

The new infill addition will feature a mix of 1 and 2-bedroom units with a private balcony/patio and in-suite laundry. The project has a building-permit in place with construction ready to begin and occupancy scheduled for summer 2017.

Source: Step Ahead Properties

DESCH Introduces a New Drive System for Mobile Construction Machinery

At BAUMA 2013, DESCH introduced a new drive system for mobile construction machinery. Based on the interest and inquiries alone, it was determined that there was a need for such a system in today's market.

Over the past 3 years DESCH, developed a new range of gearboxes designed specifically for crushers called the Revox® direct drive. Not only was a crusher developed but DESCH also released a complete series available in a variation of sizes. The Revox® drive was presented to the public at the MINExpo 2016, held in Las Vegas last September.

This new modular drive concept offers the ability to combine an energy-efficient direct drive with hydraulic drive technology.

SOFT RUNNING, COST EFFECTIVE AND SIMPLISTIC IN APPLICATION

A split power gear is the core of the Revox®, on its input side, it has a SAE connection and a flexible coupling. The crusher is driven by a V-belt drive situated at the gearbox output side. The system operates with a hydraulic soft start regardless of speed from any fixed motor. To create the most energy efficient direct drive, DESCH has eliminated the often costly electronics and sensitive start controls.

ADVANCING FORWARD AND IN REVERSE

Specifically to jaw crushers, the new concept offers the ability to operate in reverse which is critical in instances the crushers jaw becomes blocked or jammed. Two SAE C connections for hydraulic pumps are available as a standard feature, but is not limited to an additional connection, if needed.

The Revox® S is the small version of the Revox® drive equipped with similar advantages. It is designed for a lower power range with restricted expansion possibilities.

Keeping flexibility, robustness and energy efficiency in mind, this compact crusher is built to combine the working functions of hydraulics and mechanical direct drives.

Source: DESCH Canada Ltd.



Choosing the Right Tires Sends Downtime Costs On the Run

Herman Ciardullo, president of Oakridge Landscaping, was absolutely clear about his reasons for switching to a new tire supplier for his skid steer fleet.

"We can't afford flats – that's the bottom line," says Mr. Ciardullo. "With wages for 4 or 5 crew on a job, waiting for hours with a machine that's down for a tire repair or a plug, it's not smart business. You're better off spending a couple hundred bucks for a tire that's not going to get flats."

Herman Ciardullo is keenly aware of what a blown tire really costs.

"When a skid steer goes down on a jobsite, it costs me at least \$150/hr for a crew of 4, plus we have a truck onsite that we cost out at \$20/hr. It takes 4 hours for a service guy to come and change the tire. That's \$680 for a tire change!"

Herman Ciardullo turned over his downtime problem to Shawn Guiluppe, his Maintenance manager, a recent addition to the Oakridge team who was quite familiar with tire problems on skid steers.

"When I came on board here, Herman told me there was no time to lose to get this issue solved," says Mr. Guiluppe. "Camso solid rubber tires fixed our flats situation in my old job, so I called in my tire guy, Roger, to help us out here."

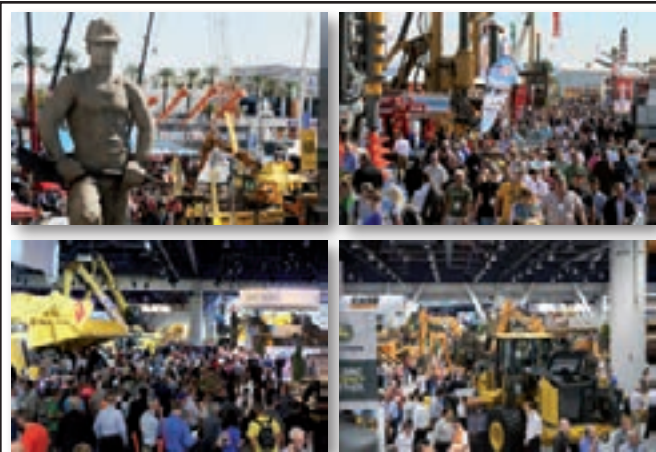
Roger Abreu is Mr. Guiluppe's tire specialist at Benson Tires, the area's Camso dealer. With more than 20 years in the tire business, Mr. Abreu was soon able to make some recommendations for the Oakridge Landscaping fleet – starting with the firm's 14 skid steers.

"We understand this business, the need to keep machines working," says Roger Abreu. "This is why you never see our



customers' machines sitting next to a tire truck with 6 or 7 guys standing around the machine!"

"We do a lot of out of town jobs," says Shawn Guiluppe. "So if a machine goes down, Herman has a bunch of guys just killing time until it's fixed. Before we



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switched, we had a week where we had to make 5 service calls for pneumatic tires – and one call was on overtime!”

The switch to solid rubber tires started showing results right away.

“We knew the first year is going to be the expensive year,” Mr. Abreu admits. “This is when we’re switching the fleet over and getting the right wheels in there. But in the next year, the tire costs go down, as much as 40%. Then, we’re just going to press off the old rubber and press on the new.”

As Oakridge Landscaping was experimenting with different SKS treads, Roger Abreu learned about the launch of the SKS 793S tire at Camso’s nearby regional office. It looked like a perfect match for Oakridge. The SKS 793S is designed to switch seamlessly from one application to another. Smooth tires wear longer on hard surfaces. Traditional R4 tires have extra traction in the dirt. The SKS 793S is the best of both worlds, with a deep inverted lug for traction, but also a wide smooth tread face for wearability.

Shawn Guiluppe recalls, “When Roger showed me the SKS 793S, I went ‘Yup, that’s it - that’s the tire!’ We had switched to smooth tires for water cuts, and lugged tires to work in the dirt. But when we put tires on a machine that was slated for one thing, it would be sent to do something else! The issue is with the hard scrubbing. The skid steer can turn on a dime but you can blow lugs off a tire, no problem. That’s where the pneumatics have a problem.”

Fitting the entire skid steer fleet with SKS 793S tires simplifies life for Randy Deleavey, too.

“I can’t select which skid steer is going to which job all the time,” he explains. “Any particular jobsite can give you a mix of jobs and conditions. So now it’s easy – any of our skid steers can do any job, just that much better.”

A year after coming to work at Oakridge, Shawn Guiluppe feels that his new tire program has the firm’s number one maintenance problem well in hand.

“With pneumatics, we had bent rims, blowouts, machines down and lost wages. Now – no downtime! They just continue to work,” he concludes.

Source: Camso

CASE Construction Equipment became the first manufacturer to offer Tier 4 final (T4f) skid steer loaders with selective catalytic reduction (SCR) technology with the introduction of the SR270 radial-lift skid steer and the SV300 vertical-lift skid steer. The brand new SR270 becomes the industry’s largest radial lift skid steer with a rated operating capacity of 1,225 kg at 90 hp. The new T4f models feature best-in-class torque, breakout force and standard auxiliary hydraulic flow.

Source: CASE Construction Equipment



 C5849

Harper Industries Introduces DewEze® 1000 Series Flatbed

Building on decades of success in the agriculture market, Harper Industries introduces the DewEze® 1000 Series Flatbed exclusively for the NTEA work truck market. This latest rendition boasts an innovative design with a superior strength-to-weight ratio, as well as the proven durability of DewEze Clutch Pump Kits.

The DewEze 1000 Series comes standard with features for functional performance and lasting durability. Gatorhyde lining, a polyurethane coating, covers the flatbed deck to create a corrosion-resistant surface that can withstand inclement weather and extreme conditions. Efficient, ultra-bright LEDs, located on the full-view headache rack, side clearance and tailgate, offer improved lighting and visibility. Stake pockets, a 40,000-pound recessed gooseneck-ball receiver hitch and D-rings also come standard.

Depending on the job requirements, 1000 Series Flatbeds are customizable with a square or beveled rear end for turning radius flexibility. Across-the-bed and underbody toolboxes, with stainless steel latches, and side rails can be added for additional storage. For additional lighting requirements, a controlled-position Swing Light Kit attaches to the headache rack and conveniently folds away when not in use.

Source: Harper Industries, Inc.



 1269

Toro Introduces New Hydro Drive Brush Cutter

Toro introduces the all-new 71 cm hydro drive brush cutter to its rental product offering. The unit is ideal for the rental industry, as durability and ease-of-use have been primary drivers in the design of this highly versatile machine.

The commercial-grade, self-propelled brush cutter is ideal for many applications and operators. Its durable components and superior engineering allow operators to level brush, tall weeds, saplings, small trees and heavy vegetation with ease. The Toro hydro drive brush cutter can handle brush up to 1.8 m tall and saplings up to 5 cm in diameter. Featuring a pivoting deck, the hydro drive brush cutter delivers a 10 cm height-of-cut.

In terms of operability, a 2-step blade engagement, coupled with a parking brake, ensure that the 71 cm hydro drive brush cutter is as safe as it is dependable. Additionally, the operator can maneuver this powerful machine in both forward and reverse with one hand. Incredibly stable,

the standard 15 cm 4-ply tractor lug tires provide effective traction for brush removal projects on slopes or in ditches and culverts.

"The new hydro drive brush cutter is an exciting addition to our rental product offering," says Sean O'Halloran, marketing manager at Toro. "Designed specifically for the rental industry, the hydro drive brush cutter is extremely rugged and features simple, intuitive controls that both professional contractors and novice operators alike will be able to master in a matter of minutes."

The new unit also features quality components, including a high-strength steel deck with large diameter pulleys that optimize the longevity of the belts.



Furthermore, an offset blade design reduces impacts to the unit while a spindle shaft saddle prevents the blade bolt from loosening during normal operation. These features combine to make an extremely reliable product, capable of handling a wide variety of challenging conditions.

Source: The Toro Company

 1212/1216

DEUTZ® High-Torque Engines Featured in New Skyjack Telehandler Range

Skyjack, Inc. has introduced a new telescopic handler range that features high-torque, 74 hp, Tier 4 final (T4f) engines from DEUTZ. Thanks to these innovative engines, Skyjack is better able to provide customers with T4f compliant telehandlers that are simpler to operate and maintain while providing better overall value.

"To meet T4f emissions standards, engines above the 75 hp range must incorporate a selective catalytic reduction (SCR) system with urea-based diesel exhaust fluid (DEF) injection," said Steve Corley, chief sales officer for DEUTZ Corporation.

"As the complexity of these engines increases, the possibility for more machine maintenance that impacts productivity can occur, particularly in the rental market. As Skyjack has found, our 74hp TCD 2.9 L4 and TCD 3.6 L4 high-torque T4f engines are excellent alternatives that don't compromise machine performance, offer cost benefits and are simple to maintain."



DEUTZ's TCD engines are able to provide high levels of torque that compensate for their lower horsepower, which is particularly useful for load-lifting machines like telescopic handlers. As a result, Skyjack's TH telehandlers can raise the same heavy loads and travel safely over the same rough terrain as telehandlers with more powerful engines.

"Naturally, we looked at a number of engine manufacturers as we were developing our TH range," said Malcolm Early, vice president of marketing for Skyjack, Inc. "In the end, DEUTZ won out as the most reliable, notable company providing a high-torque, 74 hp engine that met T4f requirements. Their engines have been a key component in the successful launch of these new telehandlers."

The TH line was engineered to meet the broad requirements of the rental equipment industry while filling a gap in the telehandler market with "workhorse" machines that offer the features and versatility previously only found on premium units. While all of Skyjack's TH telehandlers come standard with DEUTZ 74 hp TCD 2.9L or TCD 3.6L engines, buyers of 2 models – the SJ1044TH and SJ1056TH – can choose an optional 107 hp DEUTZ TCD 3.6L engine. With the higher horsepower engine, these larger telehandlers provide similar function times, load handling and tractive effort as the other models, but with greater acceleration available in 3rd gear.

"Demand for the TH range has exceeded our expectations since its launch," said Mr. Early. "Even more importantly, rental customers who had never before purchased a Skyjack telehandler are now

Rototilt Compactors

Rototilt introduces a line of hydraulic compactors that are ideally suited to work with Rototilt for the ultimate in compacting flexibility. Mounted on a Rototilt, the operator can work efficiently on flat, sloped, or uneven surfaces and compact easily around obstacles or in tight areas.

Designed to perform with low flow requirements these compactors can operate on the standard Rototilt "extra function", eliminating the need for a separate auxiliary hydraulic circuit. They can also handle high back pressure and are therefore suited to operate on almost any standard auxiliary hydraulic circuit.

Other features include rubber isolation mounts in compression versus shears for longer life and all models are available with a variety of upper mount arrangements to suit any Rototilt quick coupler or can be attached directly to the excavator or backhoe.

Available in 3 models covering excavators from 3 t to 30 t, Rototilt now makes compacting safer, quicker, and easier.

Source: Rototilt



 1273

TrucBrush Helps a Landscape Contractor Expand his Business



TrucBrush, a patented mobile device that operates off the hydraulics of a loader, has allowed snow contractors like Mark J. Aquilino, owner of Outdoor Pride Landscape & Snow Management, to expand his snow services by offering a fast, safe and effective method to clear snow off his clients' trucks, trailers and bus rooftops.

"In the past, a snow contractor could only offer to manually clear snow from fleets, which is a labor intensive and highly risky practice and one that many insurance companies no longer insure for," says Mr. Aquilino. "Last year, my company was able to differentiate itself from the competition in the bid process for a new airport freight terminal by offering TrucBrush Services."

"We were awarded the contract and they were very pleased with how fast, effective and safe TrucBrush is. We now have more opportunities with other facilities to expand our business due to TrucBrush," he adds.

"TrucBrush's customer service is outstanding. They not only spend the time to educate you on the product, but they provided our company with a customizable webinar presentation and marketing materials that allowed us to easily sell this service. TrucBrush also offers product training and technical support," concludes Mr Aquilino.

TrucBrush Corporation sells and supports Fortune 500 companies and has been recognized for its innovation both by the media and the transportation and snow industries. A large Boston-based freight forwarding manager nominated TrucBrush as a Snow Business Magazine All-Star Company, the Boston Globe selected TrucBrush Corporation's patent as one of the top ten brightest ideas to come out of the Bay State, and both the national Snow & Ice Management Association and the Smaller Business Association of New England awarded TrucBrush with a 2016 innovation award.

Their patented product and methodology is not only making highway travel safer, but they have also brought safety and efficiencies to the overall snow management at facilities.

Source: TrucBrush Corporation



including them in their fleets. DEUTZ's worldwide service support, brand recognition and reputation for reliability have made them an ideal partner in the tough rental equipment market."

The new TH telehandlers are not the only Skyjack machines to use DEUTZ engines. The company's powered boom line has featured DEUTZ engines since 2006.

"We feel that the fact Skyjack continues to partner with us is a testament to the quality, reliability and innovation that we build into each and every engine we manufacture," said Mr. Corley. "We're dedicated to providing our OEM customers with a selection of engines that enables them to make the right choices for their machines."

Source: DEUTZ Corporation

 N2637

Straight Snow Push Features Durable Design with Rubber Cutting Edge

A new Straight Snow Push without Trip is now available for Cat® skid steer loaders, compact track loaders, multi-terrain loaders, and compact wheel loaders.

Designed for moving snow in a range of applications, the new snow push is available in 2.4-, 3- and 3.6 m, and features a bolt-on rubber cutting edge that is reversible. The rubber edge allows cutting down

to the pavement to remove the optimum amount of snow without damaging the surface. The rubber cutting edge also helps extend plow life and reduce operating costs.

The new Snow Push features a mold-board specially profiled to roll and fold snow, resulting in consistent, full-capacity

loads, while the adjustable, bolt-on skid shoes allow adjusting the height of the cutting edge, which then maintains a constant



depth. The streamlined design of the side-walls provides rigid support for the outer sections of the push, ensuring long-term durability, while also keeping snow-ling at minimum for greater plowing efficiency. For added rigidity, a large box-channel torque tube resists twisting forces.


For convenience, the Snow Push adapts

to the skid steer-type (universal) coupler, which features a robust, opposing-edge design that keeps work tools securely in

position. For added safety when entering or leaving the cab, the Snow Push uses an integrated serrated step. An optional back-drag, available with either a rubber or steel edge, allows snow to be pulled away from such obstacles as loading docks and doors.

Source: Caterpillar

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Cat® Tilt Buckets Handle Angled-Surface and Precision-Grading Tasks

A new line of Cat® tilt buckets is available for Cat crawler-excavator models 311-325 and for wheel excavator models M314-M322. The new buckets, available in both pin-on and coupler configurations, hydraulically tilt 45° from vertical, right and left, to provide added capability when working on angled surfaces or performing precise grading. The buckets install easily and are designed for such applications as ditch cleaning, landscaping, and various construction tasks. They can also be used for conventional excavating in low-impact soils, including top soil and clay.

The tilt buckets are equipped with 2 horizontal cylinders that allow the operator to position the bucket and maintain grade without moving the machine. The horizontal-cylinder design allows a low-profile for the bucket, while protecting the cylinders from material flow.

The new buckets are drilled and tapped to accept the bolt-on sensor and clips



required to make them “plug-and-play” compatible with Cat Grade Control 3D. Grade control provides visual and audio positioning guidance for the operator via the machine’s in-cab monitor, enhancing the speed, accuracy, and material-move-efficiency of excavating and grading tasks.

Tilt buckets feature a reversible, wear-resistant, bolt-on cutting edge that protects the base edge and provides extended

service life. In addition, bucket surfaces subject to heavy wear, such as corners, are protected with replaceable, weld-in inserts of premium-grade steel (400 BHN).

Caterpillar supports its work tools with a comprehensive range of pre- and after-sales services, from advice about work-tool selection to operator training, equipment management, and financial and insurance products.

Source: Caterpillar

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Volvo A60H Makes North American Debut at MINExpo

In 1966, Volvo introduced the industry's first articulated hauler — the DR 631, known as Gravel Charlie.

50 years later, the A60H marks another Volvo milestone. Built upon the same engineering advancements as its smaller, industry-leading counterparts, the A60H provides the same off-road capability, now with an impressive 54.4 t (60-ton) payload capacity. This new-to-industry hauler class opens increased production opportunities and cost savings potential not previously possible with smaller articulated haulers or rigid trucks in the 60-ton size class.

Powered by a 664-hp Volvo D16J engine and built upon the legendary Volvo platform, the A60H goes where others cannot.

The active hydraulic front suspension, hydromechanical steering and high ground clearance at the articulation joint enable the A60H to easily and comfortably navigate severe terrain, and the rotating hitch design makes the articulation joint virtually maintenance-free.



Automatic traction control (ATC) and 100% differential locks continue to be a competitive advantage for Volvo. The no-slip, no-wear differential locks work in 4x6 and 6x6 drive combinations. This industry-unique design employs the front 2 axles

in full-time, and the back axle kicks in as necessary – allowing unmatched off-road performance while reducing fuel consumption and tire wear. With oil-cooled, wet, multiple disc brakes on all 3 axles, stopping distance is impressively short.



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Hole-in-one for Metal Pless

The Volvo A60H also offers a range of new standard features borrowed from the latest G-series model updates, each contributing to improved safety, productivity, efficiency and ease of serviceability.

- Hill Assist that holds the hauler in place on steep slopes without the need to engage the parking brake.
- Dump Support System allows the operator to see the percentage side inclination of the truck and set allowable parameters for safe operation.
- On-Board Weighing alerts both the hauler operator and the excavator operator when nominal load has been reached and can warn the operators of overloading.

Serviceability improvements include a redesigned belly plate that can be electrically lowered and raised with the same hydraulic lever that is used for the engine hood, which opens to a full 90° for easy, unrestricted access. Another improvement to the A60H is the no-grease tipping cylinders, which are maintenance-free, allowing for greater uptime and productivity. New orange accent colors on handrails, grill step and cab entrance now provide contrast for additional safety.

PROTECTED FOR A LIFETIME

The A60H is backed by a Lifetime Frame and Structure Warranty. The A60H's frame and articulation/oscillation joint are protected for the entirety of the initial period of ownership or for the life of the machine – whichever is less.

Further support for the A60H is offered from Volvo's extensive dealer network, who can develop customized Customer Support Agreements with everything from maintenance plans and machine monitoring reporting via CareTrack and MATRIS, to uptime guarantees and full machine warranty options.

Source: Volvo Construction Equipment

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Metal Pless participated at the annual golf tournament organized by the Golden Horseshoe Chapter of Landscape Ontario that took place on August 18, 2016

Over 180 participants showed up for this annual golf tournament. Landscapers and snow contractors took advantage of the beautiful warm weather to play an 18 hole at Willow Valley golf club.

"I come to this event every year," commented Tim Rivard, territory manager for Bobcat of Hamilton. "This year was by far one of the best!"

There were multiple sponsors that helped make this event a success. One of the sponsors, Metal Pless was present to be part of the putting green challenge.

"I really enjoyed this event," said Jason Whittemore, sales manager at Metal Pless. "It's always nice to spend some quality time with our clients other than at trade shows."

Source: Metal Pless



 1638

MacLean Unveils Battery Power Engineered for Life Underground

MacLean has been innovating for mobile equipment safety and productivity in the hard rock environment since 1973, and the latest chapter in the company's mining R&D focus is the development of battery power, engineered for life underground. The MacLean electric propulsion system leverages high power, high efficiency, and long cycle life battery chemistry, sophisticated battery management and vehicle monitoring capabilities, as well as onboard charging that ensures compatibility with existing mine infrastructure.

The formal unveiling of the battery-powered version of the next generation of the company's signature ground support offering, the 975 Omnia Bolter, was made at MINExpo. In addition, the MacLean booth featured a stand-alone display of the battery propulsion system components at the heart of the company's battery power value proposition. MINExpo attendees at the MacLean booth got an "inside look" at underground electrification, welcomed by the inter-disciplinary MacLean delegation on-hand, representing expertise from across the company's engineering, product management, account management and marketing functions.

Source: MacLean Engineering & Marketing Co. Limited



Accès Location d'Équipement Purchases First Genie® SX-135XC™ Boom Lift

Accès Location d'Équipement, head-quartered in Sainte-Julie, Quebec, will take delivery of the first new Genie® SX-135XC™ self-propelled telescopic boom lift, a model designed to deliver industry-leading outreach and capacity throughout the full working envelope for incredible operational accessibility. This new telescopic boom is packed with features, including 27.43 m of outreach, 300 kg unrestricted lift capacity and the ability to work 6 m below grade, offering Accès Location customers the ability to work in more applications that require heavier load capacities.

"It is exciting to be the first distributor with the Genie SX-135XC boom available for rent," says Harold Dubé, president, Accès Location. "Because of its heavy lift capability, we anticipate this lift will be popular with our customers working in siding, window and masonry applications, as well as on structural jobs. With its incredible below-grade reach, we also see



a market opportunity with this machine in bridge inspections and work projects."

Built to safely and quickly lift operators to full platform height – 41.15 m – in 2-1/2 minutes and drive enabled at full height, the Genie SX-135XC boom lift can position users exactly where they are needed. The Genie SX-135XC boom's innovative design includes a working envelope ideal for the

most extreme access jobs with a working height of 43.15 m and a horizontal reach of that is 3 m more than any other self-propelled boom available on the market.

The Genie Xtra Capacity™, or XC, nomenclature also lets Accès Location customers know that this new Genie boom complies with the overload restriction guidelines in the proposed CSA B354 (Canada) and

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A Busy Show Season for Valley Blades

ANSI A92 (U.S.) industry standards in North America. It includes a new low-maintenance load sense cell technology that monitors the weight on the platform and disables function if the load exceeds the platform load limit. And, this model offers a dual lift capacity with an unrestricted 300 kg and a restricted 454 kg, allowing up to 3 people onboard while still leaving room for tools and jobsite materials.

"With the upcoming CSA B354 standards changes going into effect in Canada in 2017, the load sensing feature on the Genie SX-135XC lift, combined with its dual lift capacity, will enable Accès Location customers the unparalleled ability to work at height safely while completing higher capacity jobs in a wider range of applications," adds Mr. Dubé.

Source: Terex Corporation

Valley Blades Limited attended MINExpo 2016, exhibiting their GET products for the mining industry. Lots of interest was generated from the show, and attendees were optimistic about the resurgence of mining.

Dale Baier, president and owner of Valley Blades Limited, and his team were pleased with the turnout and the opportunity to share ideas and views of the market with their customers and business partners.

You can also meet the Valley Blades Limited team as they will be exhibiting at Landscape Ontario's CONGRESS in Toronto, January 10-12, showing their snow plowing and landscaping range of products.

You can also visit with them again in Las Vegas in March 2017 where Valley Blades Limited will be exhibiting at the best construction-related event in North America, CONEXPO-CON/AGG. This will be a great occasion to see the new and innovative products Valley Blades has to offer to the industry to augment productivity and specific wear solutions.

Valley Blades Limited is looking forward to meeting with you at either of these events.

Source: Valley Blades



747



PolarFlex

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Plows with PolarFlex tend to last significantly longer before repairs or re-welds are required.

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Volvo Trucks Eases Online Parts Purchasing Process with New Cross-Reference Feature of SELECT Part Store

Volvo Trucks North America recently launched a new parts cross-reference feature for its online SELECT Part Store. The cross-reference tool is the first of its kind in the heavy-duty truck industry and will make it easier for customers to search for and buy parts online. The SELECT Part Store is an e-commerce platform that offers customers the experience of visiting a parts counter with the convenience of online ordering.

The new cross-reference feature is integrated into participating Volvo Trucks dealers' parts inventories in real time through the SELECT Part Store. The tool uses a proprietary database to provide the equivalent Volvo Trucks part numbers to any heavy-duty truck part a user searches for. The tool is designed to automatically update part numbers that have been replaced or those that have been superseded by different manufacturers. Users receive notification if a part number has recently

changed and are immediately provided with a replacement number.

"Prior to the introduction of the new cross-reference tool, users had to conduct independent, often extensive searches, for equivalent parts and also for updates to part numbers that had recently changed," said Chris Buss, Volvo manager of aftermarket service marketing. "This new feature will significantly reduce the difficulty in locating part numbers and further enhance the ease of using SELECT Part Store for online parts purchasing."

Since SELECT Part Store launched

in 2010, more than 32,000 users have registered to take advantage of deals on



parts and supplies, with the added benefit of being able to order online 24/7.

Source: Volvo Trucks North America

 C6527

The Comeback of Tradition

KOHLER Engines has developed new versions of KDI engines intended specifically for agricultural applications and were showcased at EIMA (International Agricultural and Gardening Exposition) held from November 9 - 13, 2016 in Bologna, Italy.

The range of KDI engines by KOHLER Engines is already the new technological benchmark for industrial applications in the range of powers from 50 hp to 134 hp. The rapid success of this innovative engine solution is the result of engineering choices that meet the specific needs of manufacturers and end users. Its small size, the best performance in its category, its modest fuel consumption and ease of installation, make this an engine that optimizes productivity and efficiency, reducing maintenance costs while ensuring compliance with any emission standards, from the most severe to the least restrictive, thanks to a flexible and innovative system of after-treatment in its category.

The starting point is its tried-and-tested "bedplate" architecture, whose superior strength and torsional rigidity are ideal for

application on agricultural tractors where the engine is a structural part of the machine and has to cater for the considerable strain that is typical of these applications. The supporting structural oil pan with a central tunnel for the transmission shaft has been specifically designed for specialist tractors.

The footprint is not the only element that helps simplify the installation of KDI engines. It has 2 auxiliary lateral power take offs (PTO) (SAE A and SAE B), designed to pick up the most power possible from the engine, enabling perfect integration with the machine's hydraulic system for effective powering of the accessories that are usually used, guaranteeing the interface with any type of transmission and ultimately reducing the space needed for the application. There are also provisions



enabling compressors to be fitted on the engine for handling the air-conditioning system and the air brakes circuit (optional).

The location of some of the components has also been optimized to meet the needs of agricultural machinery manufacturers.

Alongside the optimization of the components and provisions, the power and torque curves of KDI engines have

PRINOTH Presents the PANTHER T14R Rotating Dumper

PRINOTH is pleased to announce the launch of the newest model in the PANTHER series, the PANTHER T14R Rotating Dumper. Offering the highest speed combined to the highest payload in its class, the PANTHER T14R carrier will set new standards in productivity and mobility and will present a patent-pending innovation called direction reset.

The new PANTHER T14R allows the continuous rotation of the upper portion of the vehicle independent from the undercarriage. With its 13,200 kg payload capacity, this carrier has the largest payload of any vehicle of this type in its category. The rotating separation of this vehicle will allow working in tight, sensitive areas where other vehicles do not have access. Featuring the same large wheels/tandem suspension undercarriage design as the other PANTHER models, the T14R stands out from competitive products by offering increased off-road capability and stable transport of material over rough terrain.

The PANTHER T14R also differentiates itself from the competition by its superior speed of 13 km/h and its narrower width of less than 2.6 m, which complies with the North American standard transportation regulations and thus saves companies money and makes transporting the vehicle from one site to another much easier.

Additional features of the PANTHER T14R include a ROPS/FOPS certified cab designed for operator safety and comfort. A steering wheel control allows for a safe grip while moving through rough terrain and maintaining optimal precision and control. The steering components are ergonomic, telescopic and tiltable. The



been optimized for optimum adaptation to the typical usage profiles of agricultural applications, obtaining power density levels that make them candidates as replacements for larger displacement engines. The high pressure (2000 bar) Common Rail injection system and the electronic engine management logic integrate perfectly with the electronics managing the end machine.

For agricultural versions, in particular, priority has been given to the response and speed of delivery along the entire torque curve, which makes for a machine with prompt operation whatever the conditions.

The various versions (KDI 1903, KDI 2504 and KDI 3404), with various calibrations, guarantee all the certifications in the range up to 134 hp required by the European Union, North America and other countries.

The solution offered by KOHLER Engines also includes specially designed dual stage diesel filtering systems, making it possible to use low-quality diesel fuel without creat-



ing problems for the engine.

The conversion kits enable remapping of the ECU with the de-tiering of the engine on second-hand machines for sale in countries where there are no restrictions on exhaust emissions.

It is no coincidence that KDI engines are already the choice of numerous leaders in their field.

Source: KOHLER Engines

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drive controls appear on a standard color display allowing advanced interfacing capabilities.

When engineering a new product, PRINOTH always puts safety first. A new feature called "direction reset" has thus been added to this vehicle. Once the vehicle has turned 180°, the upper portion rotates against the lower portion of the vehicle. By simply pushing a button, the operator will be able to reset the vehicle's upper and lower portions' alignment. "By using this feature, it will be easier, more intuitive and thus safer for the operator to drive the vehicle," explained Eric Steben, director of Engineering at PRINOTH. "We feel this is a great feature which clients, rental houses and operators will appreciate and benefit from. We have even applied for a patent on this innovation and in fact, we are developing more safety and productivity features to be incorporated in future versions of the T14R."

The 6 models in the PANTHER crawler carrier series can access difficult worksites without damaging the terrain thanks to their low ground pressure design. While treading softly, they also carry the biggest payloads in the industry – from 5,443 kg up to an incredible 20,865 kg.

Their superior stability and floatability are valuable assets when operating in challenging work environments such as mining, construction, oil and gas and electric utility.

Source: PRINOTH Ltd.

Scania Delivers Engines for Oshkosh Airport Products' New Snow Blower

Scania has been selected as the main supplier for Oshkosh's H-Series Single Engine Blower Tier 4 final (T4f) offering. These snow trucks will be operating globally at airports, municipalities, departments of transportation (DOT's), and more.

The H-Series Single Engine Blower, powered with a Scania 13 l T4f engine, was introduced at the NEC/AAAE International Aviation Snow Symposium in late April.

"We chose Scania for several reasons. First, Scania offered us a T4f emission solution that was SCR and light EGR, but no DPF. This was a critical requirement for our more northern customers such as Alaska. Second, Scania was able to provide us the SEB's needed horsepower and torque requirements in a 12-13 l platform. Third, Scania's FEPTO (front engine power take off) ratings allowed us to drive the hydraulic pump size we needed for the SEB hydrostatic drive system. All in all, Scania was the best choice to meet several of

our critical design requirements in the development of the SEB product. In addition, Scania has a worldwide service network to support their products and our customers. This was an important element in our decision process as well, since Oshkosh has worldwide distribution," says Les Crook, Snow Products manager, Oshkosh Airport Products.

"We are excited to expand our partnership with Oshkosh, to include supplying engines for their industry leading snow removal equipment, also within Oshkosh Airport Products. As time progresses, we expect to find a range of opportunities where both parties can grow their



businesses, and the new H-Series Single Engine Blower is a great fit," says Art Schuchert, sales and marketing director, Scania U.S.A., Inc.

The H-Series Single Engine Blower meets the 2017 EPA emissions standards, allowing the vehicle to be power and energy efficient. In addition, the Scania SCR emissions solution requires no DPF.

Source: Scania U.S.A., Inc.

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BKT has been able to meet the tough requirements in logistics and port handling applications by engineering tires that can operate on uneven and hazardous terrains, and at construction sites with rough concrete surfaces handling heavy loads at full safety. The company has wide range of highly resistant tires to safeguard operations and to improve efficiency. The BKT tire range is among the most specialist and extensive ones on the market today, specifically conceived for each type of equipment, application, and specific need.

The port logistics sector requires extremely resistant tires ensuring an

extended durability over time. It goes without saying that excellent stability in lift mode is a must.

Balkrishna Industries Ltd. (BKT) is an Indian-based tire manufacturer. The BKT group offers a large and always updated range of off-highway tires specially designed for vehicles in the agricultural, industrial, earthmoving, mining, and

gardening sector.

Source: Balkrishna Industries Ltd. (BKT)



Mack Trucks' Lehigh Valley Operations Maintains Superior Energy Performance® Program Platinum Rating

Mack Trucks' Lehigh Valley Operations in Macungie, Pennsylvania has achieved the U.S. Department of Energy (DOE) Superior Energy Performance® (SEP) program's platinum certification in the Mature Energy Pathway by improving its energy performance 31.5% over 10 years. In addition, the plant was also recertified to the ISO 50001 and ANSI/MSE 50021 standards.

This is the second platinum-level recognition for Lehigh Valley Operations, which became the first U.S. manufacturing plant to achieve SEP platinum-level certification in the Mature Energy Pathway category in 2013.

"Mack is proud to be named a SEP platinum-level facility once again," said Rickard Lundberg, vice president and general manager of Mack Lehigh Valley Operations. "While we've made great

strides in improving our energy performance, our employees are hard at work identifying and implementing even more



energy-saving ideas to help shrink our environmental footprint."

The DOE's SEP program certifies industrial facilities that implement an energy management system that meets the ISO 50001 global energy management system standard. In addition, any improvements in energy performance must be verified by an independent third party auditor.

Numerous investments have been

made at Lehigh Valley Operations to help improve energy performance. Key projects include upgrades to lighting and lighting controls, a building automation system, improved air compressor management, changes in heat recovery during the manufacturing process and upgrades to increase HVAC system efficiency.

Certification to the ISO 50001 and ANSI/MSE 50021 standards signify Mack's continuing commitment to long-term environmental stewardship through reduced energy consumption. Additionally, ISO 50001 is the only globally recognized certification for energy efficiency standards in industrial facilities.

Originally opened in 1975, Mack's 92,900 m² Lehigh Valley Operations builds all Mack® truck models for the U.S. and export markets.

Source: Mack Trucks

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Appointments

With the upcoming retirement of Mike Williams (VP Sales) in December, **Mueller Co.** has selected **Mike Lindgren** to lead the Company's storied Sales organization in next chapter of its 159+ year history.

Mike Lindgren will assume VP Sales' duties and oversight while Mike Williams transitions key account relationships to Mike Lindgren, completes special sales projects, and serves in a mentorship capacity to Mike Lindgren in his new leadership role. Mike Lindgren will assume Mike Williams' existing responsibilities, including leadership of the U.S. Northeast and Western Sales Districts, Canada Water Sales, and Customer Service. (Mike Lindgren currently has leadership oversight for the Central and Southeast Sales Districts.)

According to current VP Sales Mike Williams, "I can't envision anyone else assuming this role but Mike (Lindgren). His dedication and prior results have earned him the privilege to assume this opportunity that I'm leaving. I have complete confidence in Mike exercising the diligence needed in the position and taking Mueller Co. to the next level in sales performance."

A nearly 25-year veteran employee, Mike Lindgren most recently held the Mueller Co. director of Sales & Sales Processes role for the past few years. Prior roles include Central District manager, District engineer, Senior Field Sales representative, Field Sales representative, and Sales trainee.

Source: Mueller Co. LLC

Lawrence F. Kruth, PE, has been named the new vice president of engineering and research at the **American Institute of Steel Construction (AISC)**. He succeeds Charles J. Carter, SE, PE, PhD, who has been promoted to president of AISC effective December 5.

Most of Mr. Kruth's career has been with Douglas Steel Fabricating in Lansing, Michigan, most recently as a vice president. He has notable expertise in fabrication and erection, quality systems, safety and connection design. Before joining Douglas Steel in 1984, he had stints with H & G Fabrication Corp. in Grand Ledge, Michigan, Kaiser Engineers of Pennsylvania in Pittsburgh, Master Engineers in Pittsburgh and Franklin Associates in Somerset, Pennsylvania.

"Larry brings an amazing breadth of expertise and proficiency in fabrication and erection, and the associated engineering," said Mr. Carter. "I've worked with him closely on a number of AISC technical committees and have always been impressed by his knowledge and his ability to work with a wide range of people." Mr. Kruth has served on the AISC Specification Committee and its task committees on connection design and quality control and assurance, the AISC Safety Committee and the AISC Research Committee. He also has assisted with AISC'S efforts to provide resources for construction management education, is a 25-year veteran of the National Student Steel Bridge Competition, and



served 4 years on the AISC Board of Directors.

Outside of AISC, Lawrence Kruth is a member of the Research Council on Structural Connections, Structural Engineers Association of Michigan, MIOSHA Part 26 - Steel Erection Advisory Committee and MIOSHA Part 10 - Lifting and Digging Equipment Advisory Committee. He also has served as adjunct faculty at Michigan State University for the Capstone Structural Engineering class. In 2011, he was named Engineer of the Year by the Structural Engineers Association of Michigan.

At AISC, Lawrence F. Kruth will oversee all AISC technical activities, including development of AISC's standards and technical publications, research activities, continuing education programs, university programs, and technical assistance through the AISC Steel Solutions Center.

Source: American Institute of Steel Construction

Terex Corporation recently announced that **Steve Filipov** will assume the role of president of **Terex Cranes** effective immediately. Mr. Filipov will also continue with his responsibilities as president of the Terex Material Handling and Port Solutions segment until completion of the announced sale of that segment to Konecranes Plc. Ken Lousberg, currently president, Terex Cranes, will be leaving the Company to pursue other opportunities.

"We thank Ken for his dedicated service and leadership over many years within the AWP segment, Terex China and his current position with Terex Cranes, and wish him the best in his future endeavors," remarked John L. Garrison, Jr., president and CEO. Commenting on the new assignment for Mr. Filipov, Mr. Garrison added, "Steve is the right person to lead the turnaround efforts to improve our global cranes business. Steve started his career at Terex in the Company's crane business and served as president of Terex Cranes from 2004 to 2008. Steve's intimate knowledge of the Terex Cranes business, its products and, most importantly, its customers will put him in an excellent position to start immediately with the work of improving and growing our Cranes business. Steve has demonstrated strong leadership skills during his tenure with Terex and I am confident that in his new responsibility as president of Terex Cranes he will serve us and our customers well."

Mr. Garrison continued, "In addition, Kevin O'Reilly, currently vice president, Operational Finance, will assume the position of Group vice president, Finance for the Cranes Segment assisting Steve with the Cranes turnaround. Mr. O'Reilly has held a number of senior finance roles at Terex over many years including corporate controller, segment finance leader, business development and strategy, and investor relations. Kevin's strong operational finance experience and achievements make him the ideal choice to provide the financial leadership and support that Steve and the entire Cranes team need as they position Cranes for success."

Source: Terex Corporation

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Dionbilt Manufacturing Takes On the Ultralight Market

Dionbilt Manufacturing built its first intermodal chassis 15 years ago on a small grape farm in Grandview, Washington: a 4-axle sliding chassis that hauled a 40' container. This chassis was a far cry from the grape tubs and gondolas that they started building in the late 1970s. Today, Dionbilt is still manufacturing a version of that chassis for use in the Pacific Northwest out of their shop in the port district of Grandview. They have grown to produce not only intermodal chassis, but also flatbeds, belt and chain trailers, side-dump trailers, and much more for the agricultural arena. Recent years has brought a call for lightweight durable chassis to haul the ever-increasing container weights and numbers traveling to and from our ports.

As the loaded container weights increased, the equipment tare weights needed to decrease to keep the gross vehicle weight (GVW) within the legal limits. In many areas, the load weight requirements mean that carriers are required to "axle-up" to meet the GVW. However, in many areas, the limit is 36,287 kg on only 5-axles, meaning that lighter equipment is needed to maximize the load-carrying capacity in the containers. To address these needs, Dionbilt has produced 2 different models of intermodal chassis to aid their customers in maximizing load capacity: the lightweight (2,222 kg) DBN-2400SR and the ultralight (2,120 kg) DBN-2400SRUL. When combined with the right power unit, these



chassis allow for over 24 t of payload in the container.

The DBN-2400SR is a 2-axle version of Dionbilt's proven Featherweight design; originally designed as a 4-axle for use on the highways of Washington State. The

DBN-2400SR Featherweight was retrofitted to carry loads in California where maximum loads are limited. Early 2015 brought a curveball: one of Dionbilt's customers challenged them to build a chassis that would allow for over 22.7 t of hay to be transported from farm to port in Southern California.

Dionbilt stepped up to the challenge and produced the Ultralight DBN-2400SRUL. Combining lightweight componentry (aluminum axle hubs, composite suspension springs, super-single tires and aluminum rims) and SSAB's Strenx 100 steel in the main frame, they were able to whittle the weight down to a svelte 2,120 kg. This chassis allows their customer to haul over 23.6 t of hay to the Port of Long Beach; in turn, this allows the carrier to ship 12 free containers per year, a huge savings.

In these times of load maximization, rising fuel costs, and driver shortages, the ultralight container chassis maximizes the load and Dionbilt is answering the call.

Source: Dionbilt Manufacturing

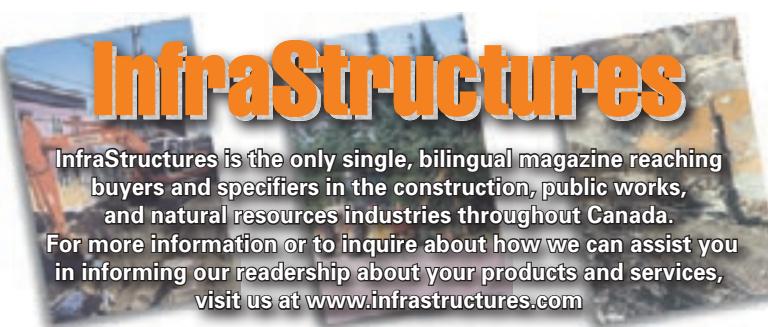
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Gurgaon/Delhi, India

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January 10 - 12, 2017
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April 20 - 22, 2017
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May 2 - 4, 2017
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IRT Asia 2017

May 25 - 27, 2017
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Canada North Resources Expo

May 26 - 27, 2017
Prince George, BC Canada

INTERMAT ASEAN

June 8 - 10, 2017
Bangkok, Thailand

Minexpo Africa

August 10 - 12, 2017
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InfraTech

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