# EQUIPMENT JOURNAL

**ISSUE** 

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Jill of All Trades to expand nationwide



Volvo CE's new demolition excavator





**Ditch Witch debuts its** Warlock line



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March 20, 2023

**ISSUE 4** 

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**EMPLOYMENT** 

# **LETTER FROM THE EDITOR**

# New emissions policies require a reasonable transition

The machines showcased noticeably different than previous versions of the

At ConExpo 2020, the idea of an electric machine was largely limited to compact equipment concepts.

This year, electric, hybrid and hydrogen fueled machines were front and centre for many manufacturers. While many machines are still in the concept or "coming soon" phase of production, it's hard to argue that OEMs are pushing back against developing new power sources for their equipment.

(AEM) issued a paper outlining recommendations for policymakers as they work to develop new regulations im- policy. pacting emissions or engine technologies.

at this year's ConExpo are have aggressive sustaina- side a regulatory transition bility goals that include a program for manufacturers desire to improve air quality when introducing an emisand reduce the impact of sions standard that require climate change," said John new technology. Somers, AEM vice president of construction and utility.

> turers have invested time, formance-based standards, effort and resources into sup- and avoid stringent requireporting engine emissions ments that compromise reductions updates. Now, the engine capabilities, fuel association and its members want to leverage our considerable experience and expertise to inform regulatory efforts happening both now and in the future."

Air and Low Emissions Recently, the Association through Next-Gen NonRoad of Equipment Manufacturers Equipment, AEM tables several recommendations that boil down to cost, time and mainly creating reasonable to \$5,000 in rebates for the

policymakers provide five scaled incentives should be

"AEM and its members years of lead time along-

As well, policymakers should implement "For decades, manufac- technology-neutral, pereconomy and productivity.

Purchase incentives should also be created to encourage equipment owners to adopt new technolgy. As purchasing a new machine is In the paper, titled *Clean* a significant investment, an incentive is key to ensuring new energy sources are put to work in the field.

In Canada, the federal government provides up purchase of a zero-emissions In the paper, AEM suggests passenger vehicle. Similar



created for zero-emissions construction, mining and agriculture equipment.

Personally, I believe organizations like AEM and the end users should be directly involved in the creation of policies that regulate engine emissions and development. Lawmakers may have noble visions of a net zero future, but there needs to be compromise between dreams and reality.



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# **Jill of All Trades program plans to expand across Canada**

gram is planning to expand nationwide by 2026.

Since 2014, Conestoga College has hosted the daylong event to inspire young women in Grades 9 to 12 to pursue education and careers in skilled trades and apprenticeship. At the recent Ontario AED breakfast, held at Toromont Power Systems All Trades founders, Brenda Gilmore and Rosie Hessian was founded and its plans to attach more young women to the trades.

"I realized there were that were trying their best to bring more diversity into the skilled trades, but we were all doing it in isolation," Gilmore said.

"Everyone was trying to do their part, but it wasn't really moving the needle."

Each Jill of All Trades event includes several hands-on workshops in the motive power, industrial and construction trades. The workshops are led by female mentors to help young women develop a better understanding of a career in the skilled trades. As well, the program works with High

skilled trades career.

for the door. That's not hap- America. pening here and that's part of the success of these events."

in Brampton, Ontario, Jill of attracted about 140 particiemployers and school boards. explained why the program Last year, the program hosted six events across Ontario, Alberta and British Columbia, attracting nearly 850 students.

tutions across Canada and high schools. They want to be program also plans to expand saythere's one event I've been has received interest from business receipt. to where the girls are looking schools outside of North

All Trades and it's basically The first event in 2014 this: bringing our communities together, networking and pants, including students, helpingyoungwomen choose a trades career," Hessian said. "This is the same message across Canada, North America and internationally."

To meet the expansion "We think we have the plan, Conestoga is partnering institutions and industries secret sauce and we're not with North American sponscared to share that," Gilmore sors. A sponsorship benefits young women and helps By 2026, Jill of All Trades them understand the value

The Jill of All Trades pro- that may be interested in a plans to expand to 25 insti- of pursuing a career in the skilled trades and address "These young women deliver more than 70 events future workforce needs. All are hand-picked from their in the next four years. The sponsorships will receive an appropriate level of recogthere," Gilmore said. "I can't into the United States, and it nition and are eligible for a

"I just want to put it out there, it's not paying for "We have a vision for Jill of people's salaries or things like that. It's paying for the operational costs," Gilmore

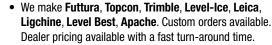
> For more information on sponsorship, contact Brenda Gilmore at Bgilmore@conestogac.on.ca.

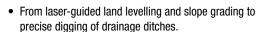


Jill of All Trades founders Brenda Gilmore and Rosie Hessian.



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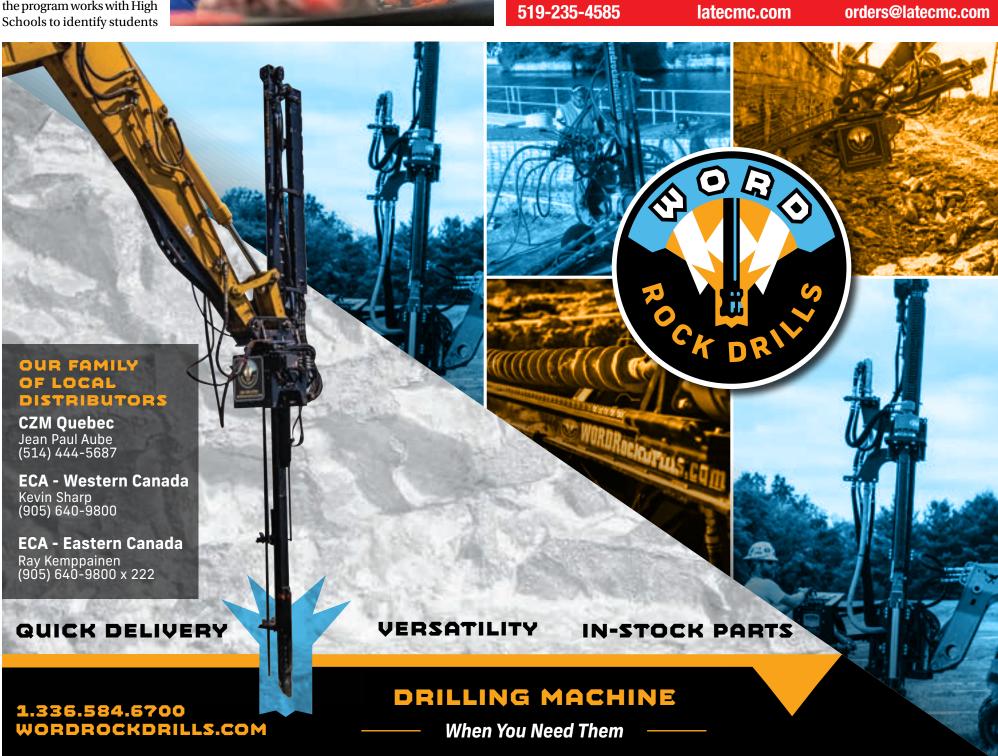




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**KOMATSU WA470-8 (2016) – 7,380 Hours**Coupler, 5.25 yd Bucket, Loadrite Scale,
All Servicing / Repairs Completed.



**KOMATSU WA500-8 (2017)** 8.25 CYD Bucket, 875/65R29 Michelin Tires Komatsu Scale, All Servicing/Repairs Completed.



**KOMATSU WA500-8 (2016) - 8,653 Hours** 8 CYD Bucket, 29.5R25 Tires, Bucket Scale, All Servicing / Repairs Completed



CAT D6T LGP (2019) - 7,645 HRS
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(7) CAT D8T LGP (2019/2020) 2,230 to 14,345 Hours SU Blades, 38" Pads, Draw-bar.



(4) CAT D8T (2011-13) - 4,381-8,090 HRS Very Clean, Choice of SU or Angle Blade, Drawbar. Ripper/Winch Available.



CAT 725C2 (2018) - 6,990 HRS 23.5R25 Tires, Rear Camera, All needed Servicing & Repairs to be Completed.



VOLVO A25G (2017) - 6,850 HRS
23.5R25 Tires, Rear-View Camera, Inspected, All
Needed Servicing and Repairs Completed.



**CAT 730C (2015) – 9,988 Hours**23.5R25 Tires, Rear Camera, All Needed Servicing and Repairs Completed. Tailgate Available.



**CAT 730C2 (2017) – 6,865 Hours** 23.5R25 Tires, Rear Camera, All needed Servicing & Repairs are completed.



Inspected, Serviced, All Needed Repairs Completed, Rear Camera, Tailgate Available.



(4) CAT 352FL (2018) – 3,900–4,470 HRS
Reach Booms, 11' Sticks, Aux Hydraulics,
Couple, 30" Pads, Very Clean. CAT Inspected.

MARCH 20, 2023

# LiuGong's 856H-E MAX wheel loader arrives in North America

During ConExpo, LiuGong introduced its 856H-E MAX battery electric wheel loader to North America

The 856H-E MAX consumes zero fuel, produces zero emissions and creates significantly lower noise and vibrations.

At ConExpo, LiuGong demonstrated how its battery electric vehicles compare to conventional machines.

"The industry is talking about battery electric vehicles at a greater volume than in years past, particularly going into ConExpo," said LiuGong North America President Andrew Ryan. "LiuGong is the sense for our company to lead the industry in the adoption and application of battery technology."

#### **Battery electric strengths**

The LiuGong 856H-E MAX has proven its reliability in the field, with more than 2,000 electric wheel loaders operating in the world's toughest EAT700 transmission with conditions as of October 2022. Its reliability is reinforced by the IP67 rated wiring harness and waterproof integrated battery package.

The battery electric loader



from LiuGong thrives on the LiuGong Intelligent Auto work sites where traditional Digging System automatically combustion engines aren't carries out repetitive digging allowed, or in fixed site cycles. As well, its electric operations where investments control box improves transin charging infrastructure mission efficiency compared make sense.

The new electric technoloworld's largest manufacturer gies are also environmentally around the operator to proof wheel loaders, so it makes conscious while offering a vide the highest levels of competitive total cost of safety, visibility and comfort. ownership.

#### Designed around the operator

features intelligent controls and a human-centric deexperience. This includes load-sensing hydraulics, an electro-proportional valve light applications and eight for fast, smooth shifting and hours for heavy applications. independent control of the It also features an Intelligent dual-motor drive for maximum hydraulic lift.

To reduce operator fatigue, minutes. ■

to conventional machines.

The vehicle was designed

Its cab has full ROPS protection and it is designed to significantly reduces dust and The battery electric loader noise contamination.

Powering the 856H-E MAX is a 432 kWh large capacity sign to improve the operator lithium-ion phosphate battery from manufacturer CATL.

> The machine is capable of 10 hours of working time for Battery Management System that can be fast charged in 90



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# Cat enhances its 548 forest machine with Next Gen tech

Caterpillar's new 548 next more swing torque. As well, compared to its predecessor.

Available in log loader and general forest configurations, the new 548 is equipped with a C7.1 twin turbo engine that president for Caterpillar's produces 30 per cent more power than the previous generation 548 will take it to series' engine, enabling the new electrohydraulic control system to deliver 30 per cent Modern tech

generation forest machine updates to the drive system is equipped with several boost travel speed by 10 per significant design upgrades cent, helping the machine cover ground faster than ever.

> "The 548 earned a reputation for reliable performance," said Brent Uitermarkt, vice forestry products. "The next an even higher level."

The new 548 is equipped with Smart mode, which automatically matches engine and hydraulic power to working conditions to help maximize fuel efficiency without sacrificing performance. The machine has a cold-start capability of -32 C and high ambient temperature capability of 52 C that enables the machine to work year-round.

As well, Product Link technology captures operating data, fault codes and machine location information to boost fleet management efficiency.

When within mobile network coverage, the machine's new remote troubleshoot feature analyzes the data captured by Product Link and can share it with the owner's Cat dealer to help save a service trip to the jobsite. The 548 will operate with the most current version of software thanks to standard remote flash, which updates machine software around the production schedule.

"More production, greater comfort and safety, and lower maintenance cost is what loggers can expect from our new 548," Uitermarkt said. "Add in a dealer network that's dedicated to the forestry business and you get a winning combination of machine and support that really can't be beat."

# **New forestry cab**

features a reinforced struc-Available in a choice of rear or side entry, the cab's interior space is 25 per cent larger, allowing most operators to stand without hitting their head.

The field of view from the standard heated and cooled seat is improved by 50 per cent due to narrower cab pillars, larger panoramic windows and a flat engine hood.

The new Cat 548 is also equipped with a standard rear-view camera designed to enhance visibility as do three available cab risers. The available Cat easy lock cab tilting system on the log loader configuration makes for much easier transport.

Ingress and egress are eas-



ier due to the cab's wider and taller door and tilt-up console on the operator's seat for the side-entry cab.

The machine's new dual HVAC system keeps operators comfortable regardless of temperatures.

Furthermore, the 548's specially insulated roof and improved window and door seals keep in-cab noise lev-

Operators can start the 548's engine with a simple push of a button or available Bluetooth key fob and unique Operator ID. An operator ID allows each user to quickly program and store their own machine settings and attachment function preferences.

A larger 25 cm high-resolution touchscreen monitor delivers intuitive navigation through operating menus and includes a digital version of the operator's manual for quick reference. An available Cat PL161 attachment locator assists in finding work tools within a range of 60 metres, even when covered by overgrowth or debris.

# **Reduced maintenance costs**

Compared to the previous model, the 548 next generation forest machine will consume 50 fewer filters throughout the course of 12,000 hours, which contributes to lowering maintenance costs by up to 15 per cent.

"We improved our filters The new forestry cab and our service intervals, and we improved groundture and large 32-mm thick level access to service points polycarbonate windshield to make daily maintenance to enhance operator safety. quick and safe," Uitermarkt

> "Our new electrohydraulic control system eliminates the need for a pilot filter and pilot oil altogether."

> Fuel filters feature a synchronized 1,000-hour change interval, which is double the service life of the previous model.

> A new hydraulic oil return filter improves filtration and delivers a 3,000-hour service life, which is 50 per cent longer than previous designs. The high-efficiency cooling fan runs only when necessary, and reversing intervals are programmable to enable the fan to keep the radiator cores clean without interrupting work. 🖪





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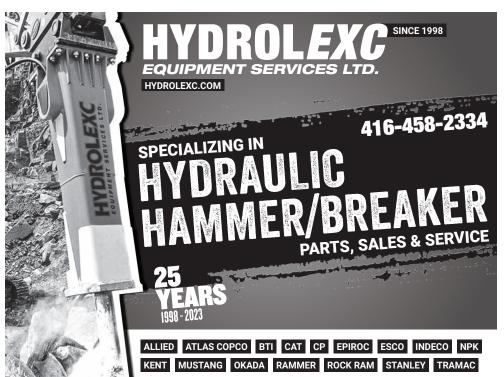
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# **Vancouver Community College students** get lesson in clean engine tech

Vancouver Community Col- used for training and edu-

lege (VCC) has expanded its cation to keep pace with the fleet of electric machinery growing demand for clean technology.

Students in VCC's Heavy Mechanical Trades program will receive hands-on training to maintain and repair the college's new Volvo ECR25, a compact excavator that is 100 per cent electric.

"The Volvo ECR25 electric compact excavator will serve as an essential educational tool for students in the Heavy Mechanical Trades A zero emissions future program at VCC," said Lucy Griffith, acting dean of the to reach net zero emissions VCC School of Trades, Technology and Design.

The electric excavator was purchased from Volvo CE dealer Great West Equipment. The machine will enable hands-on training important for Vancouver in the operation, repair and maintenance of battery-electric equipment, providing students with valuable, real-world experience in the newest technologies in heavy mechanical trades.

excavators is becoming increasingly common, and this acquisition will give students a competitive advantage in the job market," Griffith said.

As part of its Strategic Innovation Plan, the college is committed to developing sustainability initiatives that support climate action. The college already has an electric forklift and the Toyota cially heavy-duty equipment Mirai - one of the first hy- technicians, are in high drogen vehicles available demand in the province. in Canada.

quisition of the Volvo nology will set them up for ECR25 electric, Vancouver success as they launch their Community College has careers in the industry."

demonstrated their support and commitment to develop a curriculum that will pave the way for clean energy education," said Ben Goodarzi, corporate service manager at Great West Equipment. "By preparing students with the latest training and technological advancements, VCC is developing the technicians of tomorrow and leading the way to a more sustainable future."

British Columbia is aiming by 2050 and is working with industries to move towards cleaner technologies.

With one of the largest working student garages in the province, it was Community College to move towards technologies that benefit students in the program and align with government and industry initiatives.

"Obtaining the Volvo "The use of electric ECR25 electric compact excavator is not only in line with the college's larger vision of moving towards clean energy and sustainable technologies, but it is also future-proofing our students for the in-demand jobs of a rapidly evolving industry," said Ajay Patel, VCC president and CEO.

"All skilled trades, espe-Ensuring VCC students are "With the recent ac- trained on the latest tech-





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# Volvo CE debuts new demolition excavator and industry-first lifting mode

Volvo Construction Equipment has introduced its new EC300E Straight Boom demolition excavator.

The new 30-ton machine, with a maximum reach of more than 10 metres, made its debut at the NDA Show held in Phoenix, Arizona.

Alongside the demolition excavator, Volvo CE also introduced an indus-Mode for Multi Demolition Boom. The new feature allows a high-reach demolition valuable in demolition applibooms from the trailer to excavator to serve as a safe carrier for the lifting of machine components from a trailer to the ground, adding versatility to these specialized machines.

"Being able to offer customers another size of straight boom excavator is exciting, and launching at for transportation. the NDA show felt ideal," said Tony den Hoed, key ac- Lifting Mode count director for demolition equipment at Volvo CE.

is ever-changing, and we are proud to keep up with it by offering products and solutions that will keep operators safe and productive."

The EC300E Straight Boom joins the EC380E Straight Boom model in the Volvo demolition lineup. Rather EC380E HR, the EC480E HR than the traditional boomand-stick approach of digging-biased excavators, the crawler is equipped with a 7-metre-long straight boom and purpose-built arm.

boom on the EC300E delivers height and reach advantages compared to the standard machine it is based on. As well, the cab is protected against falling debris with a frame mounted Falling Objects Guard that allows for clear views of the worksite. The roof window and front one-piece glass are made from P5A, which is resistant to high impact.

The EC300E Straight Boom has a reinforced frame made of heavy-duty plate steel with bolt-head protection. There is also heavy-duty undercover protection, a belly guard and a full track guard. A slew ring cover and heavy-duty side doors with screens and shutters offer added protection. Volvo CE has also added protection on the bucket and boom cylinders.

# EC300E Straight Boom Specs

- Operating Weight: 34,409 - 35,583 kg
- Gross Power: 253 hp
- Lifting Capacity: 14,256 kg Overall Width: 3.2 metres
- Tail Swing Radius: 3.1 metres

The EC300E demolition excavator includes several standard features that are



try-first feature called Lifting Volvo CE's new EC300E Straight Boom is a purpose-built demolition excavator with a max reach of more than 10 metres.

fit and oil drain line, and water lines connected to a or manual mode. A heavy

The new Lifting Mode for Multi Demolition Boom is machine software specifically "The demolition segment specifically designed for designed for the controlled Volvo CE's high-reach excavators. The new mode as visual warnings outside provides improved flexibility, reduced emissions and ers that a lifting process is lower total cost of ownership. It can be factory-fitted controls hydraulic pressure to any of the company's three and engine speed, ensuring high-reach excavators: the optimum safety throughout. and the EC750E HR, each of a certified lifting accessory, which is already compatible designed to fit the patented with various extensions and modular joint design from booms to carry out a wide the multi demolition boom range of applications.

Lifting mode can simpli-The extra-long straight fy transporting equipment When all components are to jobsites as it allows the safely unloaded, switching excavator to safely lift com- to the high reach or digging ponents such as cradles boom is easy, thanks to that and digging or high reach modular hydraulic joint.

cations. These include X1 and the ground, at which point X3 auxiliary piping, a quick they can be safely installed on the machine.

"Total cost of ownership is dust suppression system that reduced by eliminating the can work in either automatic need for a mobile crane or second excavator, and flexcounterweight provides bal- ibility is increased thanks to ance and is easily removable the time savings," den Hoed said. "Emissions are also reduced due to fewer vehicles being on site."

> The solution consists of lifting of equipment, as well the cab to warn bystandunderway. The software also

> This lifting mode includes and can easily be connected to the lower pin of the boom.



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# Terramac opens new assembly facility in St. Louis

opened a new assembly facility in St. Louis, Missouri.

The new facility follows the company's recent opening of its new headquarters in Sugar Grove, Illinois.

with two production lines, each with a production capacity of 250 crawler carriers per year with room for expansion.

ing older, shuttered 100,000 square foot complex located on eight acres in an industrial area of North St. Louis and are returning it to manufacturing," said Warner Fencl, vice and process improvement for the CK Power Family of Companies, the parent company of Terramac.

"We designed the facility for efficiency and productivity with the ability to quickly changeover from one model to another as demand necessitates."

The facility has more than 275 tons of overhead crane lift capacity, which will easily handle any assembly require-

is set to begin production in March.

"We are excited about revitalizing the plant facility, as well as the neighbouring area," said JJ Costello, vice persident of business development for train, and off-highway power CK Power Family of Compan-solutions. ■

To expand its production ies. "Our plans to ultimately capabilities, Terramac has hire more than 100 employees over the next couple years drawing from the local workforce will help support our goals for the company and the community."

When fully operational, St. The assembly plant will start Louis production will complement the existing production to allow Terramac to meet the growing worldwide demand for its crawler carriers.

"We work closely with "It's an exciting time for our North American dealer Terramac. We took an exist-network to engineer crawler carriers for many different industries and uses," said Matt Slater, vice president of business development for Terramac. "

With a variety of sizes, president of manufacturing rotational capabilities, and extended frame options, the potential uses of Terramac crawler carriers are endless, and the new facility allows us to adjust production as needed."

Terramac crawler carriers are sold through its dealer network, which offers parts and service support throughout the world. The units can be customized with support equipment to serve many industries including pipeline, utility, mining, en-The new Terramac plant vironmental, forestry, general construction and more. Terramac is part of the CK Power Family of Companies, a distributor, manufacturer and service provider for engines, power generation, power-

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Liebherr A904C 2013 Material Handler, equipped with A/C, auxiliary hydraulics high pressure and medium pressure lines, automatic greaser, angled mono boom 5.30m, stick 2.65, lock valves boom and stick cylinders, rear camera, reversible fan, 4 outriggers, twin tires 10.00-20



Liebherr LH22M 2016 Material Handler, equipped with A/C, cab riser, auxiliary hydraulics high pressure and medium pressure lines, automatic greaser, straight mono boom 5.50m, industrial stick 3.50m, lock valves boom and stick cylinders, rear and side camera, reversible fan, 4 outriggers, twin Liebherr 10.00-20



Liebherr LH50M 2018 Material Handler / Log Handler, equipped with A/C, rigid cab riser, auxiliary hydraulics lines, automatic greaser, straight mono boom 6.70m, angled stick 4.30m. lock valves boom and stick cylinders, rear and side camera, reversible fan, 4 wheel steering, 4 outriggers, Twin Continental Containermaster E4 tires 14.00-24 28PR, Tier 4f



Liebherr R914 2020 Compact Excavator, equipped with A/C cab, auxiliary hydraulics, swiveling hydraulic coupler, excavation bucket, automatic greaser, mono boom 4.60m, stick 2.05m, lock valves boom, stick and bucket, rear and side camera, reversible fan, dozer blade 2640mm, track pads 600m triple grouser

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(L to R) Joe Palfy, sales specialist for Bobcat of Toronto (Oaken Equipment) and Danny Lucente, owner of FTD Construction.

FTD Construction is a family-run business that was established in 1993. As a student Danny Lucente worked for his father, Fiore during the summers at FTD Construction. He did extremely well in architecture design school, but he fell in love with the business and truly enjoys working with his hands. He decided to carry on the family legacy and now has taken over the family business. FTD specializes in building restorations, waterproofing, minor asphalt, parking lots, hardscaping, interlock, site work, trenching, parks, and utility line installation. Danny says, "we do just about anything outside". They take great pride in their business coming from repeat business and referrals from GTAwide and from Hamilton to Oshawa. Fiore is semi-retired, and Danny's son is now helping out at the business too. They are currently in the midst of growing and building a new shop on 10 acres. Danny and the team sure do like to keep busy!

When asked why Bobcat® machines, Danny replied "My Dad and Uncle did an addition using a Bobcat 743 with a backhoe attachment. This was in the 80s and they had metal tracks back then. I remember how great that machine worked for them. I always price out against two competitors, and I have always stuck with Bobcat. I prefer the smaller equipment. The Bobcat compact excavators are the money makers. Faster for digging out patios and for waterproofing. I can do it in a day, rather than a week. It's an extension of your arm. Harder to find employees these days as well. I love to excavate. The mini ex is my favourite. The thumb is awesome and so much faster! The Bobcat 743 is 1987/88 and is running like a champ. So smooth and loose. I use it to roll."

"It has been really good working with Joe Palfy, sales specialist for Bobcat of

Toronto. My father loves to joke around with Joe as well. Our family has been working with Bobcat of Toronto for 10 years now. Their team carries over very well. We are very happy, no reason not to be. We would be happy to recommend Joe Palfy and Bobcat of Toronto (Oaken Equipment), for your next machine purchase.

Thanks Danny.



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# Teleo blends human operation with machine learning

John Aarts Group will be the first Canadian construction company to deploy the semi-autonomous system

Teleo is blending machine learning with the and a mesh network that offers connectivity struction industry navigate labour shortages.

When installed on heavy equipment, the company's new system, Teleo Supervised withstand the harsh conditions associated Autonomy, creates a remote-controlled and semi-autonomous machine.

Several machines throughout North America have been retrofitted with Teleo Supervised Autonomy and the system is now being deployed on its first jobsites.

quite unique is we retrofit any make or model of machine to create something that operators can work with," said Vinay Shet, co-founder and CEO of Teleo.

Fully autonomous construction equipment, which doesn't require any human intervention, is still several years away from loaders and trucks with its system, but the becoming reality. Teleo's system keeps operators involved, having them remotely perform complex tasks that technology cannot yet handle.

operator is front and centre, and they get to Shet said. manage the fleet of machines," Shet said.

"When you blend human operations with First in Canada the autonomy with the machinery, that is when you build a real product."

# Addressing the labour shortage

Teleo Supervised Autonomy allows an operator to work from the comfort of a command centre allows one operator to control multiple machines.

"You can put one machine in autonomy mode, so that machine can travel from Point A to Point B. During that time, the operator can switch to another machine and do something else. Suddenly productivity has gone up," Shet said.

role from the field to a remote command centre, Shet explained Teleo is creating a safe and comfortable work environment, which makes the job more attractive to youth entering the workforce, while also making the job more accessible.

The appeal of working from the command centre, paired with the productivity increase of one operator managing multiple machines, will ease labour issues.

"There's a labour shortage across the industry. This is the Number 1 pain point for every customer we speak with," he said. "They have more work to do than they have people to do that work. People are the bottleneck in that sense."

# Teleo's tech

Teleo's system includes the company's kit customized for any machine; a remote command centre to operate the equipment; and from jobsites."

skills of human operators to help the con- on site so the command centre can communicate with the machine.

> The universal retrofit kit is designed to with operating heavy construction equipment. The kit incorporates state-of-the-art sensors such as high dynamic range cameras that can offer high-definition visibility and video footage both day and night.

"The cool part of the hardware installed on "Something that Teleo provides that is the machines is that it is out of the way. If the operators want to operate in manual mode, they can do so," Shet explained. "They hit a single switch and go back to manual without any interruption. If they want to go back to Teleo mode, they flip the switch again."

> So far, Teleo has equipped dozers, wheel technology is compatible across equipment in the industry, regardless of age or manufacturer.

"We are able to convert a wide range of "We're talking about supervised auton- machines. The technology is broad and omy, not just pure autonomy. The idea is the not limited by the machines themselves,"

John Aarts Group, an integrated construction services company based in London, Ontario, is the first company to leverage remote operations to virtually load a concrete plant. A John Deere 624K wheel loader will be retrofitted with Teleo's technology command centre. A key benefit is that the to remotely load and unload materials in Tillsonburg, Ontario, starting in the second quarter of 2023. This job usually includes a lot of stop and go work, which results in unproductive time. The Teleo system will increases efficiency allowing operators at John Aarts to focus on higher impact work.

"Our goal with introducing Teleo's autonomous technology is to further support our As well, by transitioning the operator team," said Ryan Aarts, CEO of John Aarts Group. "There is more work to be done than there are operators, and Teleo is helping us to create opportunities for team members to do more of the meaningful work they like to do. We've always been early adopters of technology and we are partnering with Teleo to load our concrete plant because we saw an opportunity to increase efficiency."

> Alongside John Aarts Group, Tomahawk, a Florida-based excavation and site development company, and Teichert, a California-based construction and materials company, are some of the first users of Teleo's technology.

> 10 months without operators in them," said Scott Lyons, managing member of Tomahawk Construction.

"With Teleo, more people will be attracted proprietary software; a universal retrofit to this job because they can run trucks from our office and save hours of drive time to







Teleo founders Rom Clement and Vinay Shet.



Based in California, Teleo was founded in "We have had two trucks sitting around for 2019 by Shet and Chief Technology Officer (CTO) Rom Clement, who both led autonomous vehicle teams at Lyft and helped develop Street View and other foundational technologies at Google.

The company is now expanding globally through a new dealer network, including SMS Equipment in Canada.

"I had a front row seat to see that while there is a lot of advancement in machine learning and AI, there's a limit to how far it can go in building a fully finished product,"

"Teleo's supervised autonomous technology enables companies to realize value now, rather than waiting several years for full autonomy."



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# Ditch Witch debuts first truck vac in its new Warlock line

Ditch Witch has introduced and performance to jobsites vacuum excavators.

PTO-driven vacuum excavor cleaning up spills and deb-

"We're building on 20 years of truck vac knowledge to bring excavation crews the more stable truck to improve innovative line of Warlock operator experience. For easivacuum excavators," said er operator usability, the W12 Chris Thompson, vacuum includes a remote-control to excavation product manager operate the water system and at Ditch Witch.

The W12 truck vac delivers the tank. increased capacity, versatility

the new W12 truck vac, with more than 4,500 litres of which is the first machine fresh water and a nearly 9,200 in its new Warlock line of litre debris tank. With 5,000 cubic feet per minute (CFM), As the first offering in Ditch 27"Hg of vacuum power, and Witch's new line of Warlock its extensive storage capacity, vacuum excavators, the W12 the W12 truck vac allows gives utility contractors a crews to take on larger jobs, as well as maximize time on ator designed to enhance the jobsite, which will reduce productivity while potholing time spent dumping debris.

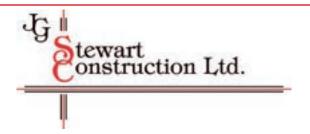
> debris tank, positioned between dual 2,271-litre saddle tanks of fresh water, creates a boom, as well as lift and lower

"The increased versatility more.

and capacity of the W12 allows crews to improve productivity and decrease downtime on even the toughest jobsites," Thompson said. "Operators get improved technology and optimized design with the same service and support that comes with purchasing any equipment in the Ditch Witch dealer network."

The W12 truck vac also The design and layout of the includes dual hose reels, coupled with the ability to use both a hydro and air method, to enable crews to use one machine for a variety of excavation tasks, even in harsh environments. T

> ogether, the size and versatility of the W12 allows it to be used for slot trenching, HDD projects, potholing and



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# Sustainable, intelligent and digitally supported

Hamm debuts its new flagship HX Series pivot-steered tandem rollers

Replacing the previous DV+ series, Hamm has introduced the new HX Series of pivot-steered tandem rollers.

The new machines deliver intuitive operation with Easy Drive, high performance data, numerous comfort features and sustainable operation, digital compaction assistant. As well, Hamm has added numerous detail improvements, new options and interfaces into practice in the HX series.

#### The new Hamm flagship

The HX series is the new flagship for the Hamm fleet. Designed for asphalt compaction, the HX 70i model (7 t/55.4kW) and HX90i (9t/74.4 kW) achieve high surface outputs on large construction sites. The rollers are also able to tackle compaction in curves with a high degree of precision. In these applications, the pivot steering shows its strengths with a large turning angle, large track offset and four different steering modes.

Intelligent drive control with automatic reversing provides a foundation for high compaction quality. It guarantees quality and comfort and can brake or accelerate the rollers quickly, but smoothly. The seat also turns automatically in the direction of travel when reversing.

For an improved field of view, the fully glazed panoramic cab delivers an excellent view of the drum edges. As well, a camera system with two monitors is integrated as standard features to provide optimal vision. Thanks to the division of the screen, views to the front and to the rear are visible regardless of seat position. The cab floor window also provides a unique view the drums.

# **Easy Drive**

Hamm's Easy Drive combines an ergonomic operator's platform with language-neutral and self-explanatory operation. Despite extensive machine functions, operation is easy to learn. Aside from steering, all other important functions are operated via a joystick and the multifunction armrest. The position of armrests and tilt angle of the steering column are also adjustable.

# **New additive mixing unit**

A revised dual-circuit additive mixing unit for the combination rollers saves water and increases the range, as the sprinkling system at the front and rear are controlled separately. Water and additives can be sprayed sep-



as well as the Smart Compact arately or as a mixture. For roller drum as well as combinspreading surface courses, Hamm has improved chip spreaders in its range for the HX series. All models have the option for height adjustment.

> Optionally, an innovative lowering device is available, making installation and removal possible without a forklift truck or crane. The spreaders are operated from the operator's platform and are fitted with automatically rolling tarpaulins and integrated LED lighting.

#### **Compaction assistant**

The Smart Compact compaction assistant is another feature on the HX series rollers. The system decides compaction automatically and individually for each drum. The driver then only must enter whether a base, binder or asphalt surface course is to be compacted. The assistant evaluates data about the condition of the asphalt, optionally incorporating local weather data from an integrated weather station. Hamm is the first manufacturer in the world to automate the separate setting of both drums.

To reduce fuel consumption noise and emissions, the HX series engines work at a lower speed of 1,500 to 2,000 rpm. Here, powerful travel pumps ensure high compaction power. Furthermore, the automatic engine stops automatically and switches the engine off after an extended period of inactivity. Smart Compact also saves up to 15 per cent of fuel by switching off the vibration or oscillation as soon as it is no longer useful. Finally, the rollers can be operated with diesel or HVO

# **Modern solutions**

Thanks to numerous interfaces and the corresponding hardware, the rollers in the HX series are prepared for future applications and challenges. Hamm also offers the option of integrating systems for avoiding collisions with a proximity detection system interface.

The HX series rollers are available with a 7 tonne (HX 70i) or 9 tonne (HX 90i) operating weight. Among the nine total versions are models with two vibrating roller drums, an oscillation and a vibrating

ation rollers.

The vibration and oscillation drums are made as a split or non-split drum depending on the model.



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# Federal Signal to acquire Trackless Vehicles

acquire all assets and oper-

a definitive agreement to Limited, a manufacturer of multi-purpose, municipal sidewalk tractors.

> The acquisition also includes the operations of Work Equipment Limited, the exclusive Trackless dealer in Southwestern and Northern Ontario, Canada.

The agreement will see Federal Signal acquire the companies for \$54 million. The transaction also includes a contingent earn-out payment of up to C\$6 million.

"The acquisition of Trackless represents a strong addition to our municipal product offerings and further bolsters our position as an industry-leading diversified manufacturer of specialized vehicles for maintenance and infrastructure markets," said Jennifer L. Sherman, President and Chief Executive Officer of Federal Signal.

"With our Joe Johnson Equipment subsidiary currently the largest distributor of Trackless products in North America, we have a great appreciation of Trackless' products and reputation for quality and innovation. We are excited about the opportunities to leverage Federal Signal's distribution channel in the U.S. to expand the geographic reach of Trackless products and accelerate the growth trajectory of the business."

Trackless Vehicles is headquartered in Courtland, complete the acquisition Ontario, and employs about in the next 90 days, subject 90 people. Last year, the com- to customary closing conpany generated about \$35 ditions, and expects the million in revenue.

"Trackless has a proud in 2023. ■

Federal Signal has signed ations of Trackless Vehicles history of growth through customer focus, quality products, and excellent service," said Douglas Cadman, President of Trackless. "Federal Signal, through Joe Johnson Equipment, has been a valuable long-term partner of ours, and we are excited to be joining forces to launch the next phase of our growth."

> Trackless manufactures the MT Series 7 tractor (MT7), which uses a variety of attachments to provide yearround value to its customers. Snow and ice attachments, including de-icing solutions, plows, and snowblowers can be used by customers during winter months, while during warmer periods, other attachments can be used in a variety of applications, such as concrete/asphalt maintenance, sweeping, tree and vegetation control, and materials hauling.

> Trackless also supports the recurring aftermarket needs of its customers through a comprehensive parts offering, sales of which represent up to 20 per cent of annual revenue.

> Founded in 1901 and headquartered in Oak Brook, Illinois, Federal Signal is a global designer, manufacturer and supplier of products and total solutions that serve municipal, governmental, industrial and commercial customers.

The company expects to acquisition to be accretive





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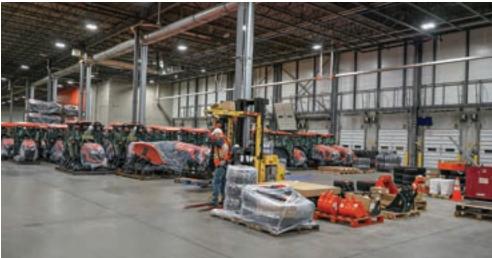






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# A commitment to Canada

# Kubota Canada opens new corporate headquarters in Pickering

state-of-the-art facility is a testament to the company's ongoing founded in 1975.

The new headquarters and distribution facility is located in the very dealer centric." Pickering Innovation Corridor and ment from Kubota.

saying we're going to invest more art meeting and training space on home in the Pickering Innovation in Canada," said Kubota Canada three floors. As well, the campus President Yannick Montagano. "This is a Canadian team making tially double its warehouse space decisions through a Canadian lens when expansion is required. The Premier Doug Ford. "This investfor the Canadian market."

As well, the new headquarters enhance Kubota Canada's strategy

its new corporate headquarters in as well as its customers in the agri-Pickering, Ontario, and the new culture, construction, commercial and residential markets.

"Now the onus is more on us to focus on Canada since it was satisfy our dealers. Thankfully we've done that, and we have a history of doing that," Montagano said. "We're

The new facility includes 500,000 represents an \$80 million invest- square feet of industrial warehouse space and 65,000 square feet of "This is us doubling down and office that includes state-of-theallows Kubota Canada to potencompany's previous home was spread out across four buildings.

Kubota Canada has moved into to focus on its dealers nationwide, into one loop now, which is much build communities and grow fresh easier for us to manage. It's much food here in Ontario." more efficient," said Steve Sweetnam, Kubota Canada's director of Mayor Dave Ryan explained the marketing.

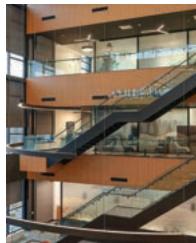
> When the facility celebrated its grand opening in late 2022, the investments to the Innovation facility earned accolades from all three levels of Canadian government as well as representatives of that Kubota Canada Ltd., chose the Japanese government.

"Our government is pleased to welcome Kubota Canada to its new Corridor and to see the results of the company's \$80 million job-creating investment," said Ontario ment will help Kubota Canada

At the municipal level, Pickering new headquarters will help attract new industrial and commercial Corridor.

"The City of Pickering is thrilled Pickering's Innovation Corridor as the home of its new Canadian corporate headquarters and distribution facility," Ryan said. "Kubota Canada Ltd. will be joined by a broad spectrum of other innovative and leading businesses in the near

This new facility is part of a subcontinue to distribute the equip- stantial investment for Kubota needs of Canadian and American "This allows us to consolidate ment that allows our workers to globally, as the company also customers. 🗖



recently opened a new 280-acre research and development centre in Georgia, built to meet the





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# Takeuchi adds its first short swing excavator to the **TB300 Series excavator product line**

Takeuchi has introduced the combination of performin its TB300 excavator series.

worrying less about rearswing impacts.

ators that deliver a unique able and productive."

tail swing compact excavator comfort and serviceability," said David Caldwell, na-The TB350R has a rear tional product manager for swing overhang of 7.5 cm Takeuchi-US. "As a result, Takeuchi TB350R specs allowing operators to focus our new TB350R offers many more on their work, while improvements that demonstrate our commitment to V2607-CR-E5B diesel engine providing customers with that is Tier 4 Final compli-"Takeuchi continues to advanced technology that ant and delivers 41.7 net hp design and build excav- helps them be more comfort-

The TB350R weighs 4,980 and 5,096 kg when equipped with a cab.

The new Takeuchi excavator is powered by a Kubota and more than 130.2 ft-lbs of torque.

A four-pump hydraulic system delivers smooth, harmonized control of the work equipment. The TB350R provides a bucket breakout force of 4,731 kg, a traction force of 5,588 kg and a maximum dig depth of 3.6 metres.

The canopy and cab configurations are both equipped with a primary auxiliary circuit that is plumbed to mid-arm.

The cab model also includes a dedicated coupler circuit operated by controls located inside the cab.

The primary auxiliary circuit delivers 100 litres per minute at 2,990 psi, making it capable of utilizing a wide range of hydraulically driven attachments.

#### **Improved operator** experience

Takeuchi completely redesigned the TB350R's interior. The excavator's canopy configuration includes an 11-cm high-definition, multifunction colour monitor, while the cab model has an 18-cm touchscreen, multiintegrated air conditioner and radio functions.

For enhanced operator comfort, the excavators feature a deluxe, high-back, six-way-adjustable suspension seat, adjustable arm rests, low-effort pilot controls. As well, the machine

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For the cab model, an new TB350R, its first short ance, durability, operator kg in canopy configuration intuitive jog dial provides operators with easy navigation and control of the multifunction monitor as well as other machine functions. Simple, one-touch control switches activate machine functions such as work lights, wiper, washer, Eco mode, first auxiliary circuit detect and lift overload alarm.

> "When maintenance and service work are fast and easy to perform on a machine, it's more likely that they'll be done correctly and at the right intervals," Caldwell

> "That's why we designed the TB350R with a wide-opening rear engine service door and a right-side cover that opens overhead for quick access to key daily inspection points."

# **Takeuchi Fleet Management**

Takeuchi's Fleet Management (TFM) telematics system is standard on the TB350R. TFM reduces downtime and controls costs by providing owner/operators with machine health and condition, runtime and machine location, as well as remote diagnostics, scheduled maintenance reminders and customizable alert settings.

TFM also gives owners the ability to geofence their machines, helping them protect and secure their investments.

"Since developing the function colour monitor with first compact excavator in 1971, Takeuchi has focused on providing products that meet and even exceed the needs of today's contractors," Caldwell said.

> "We believe the TB350R continues that tradition by delivering serviceability and operator comfort without sacrificing efficiency, value

> > www.ringrad.com

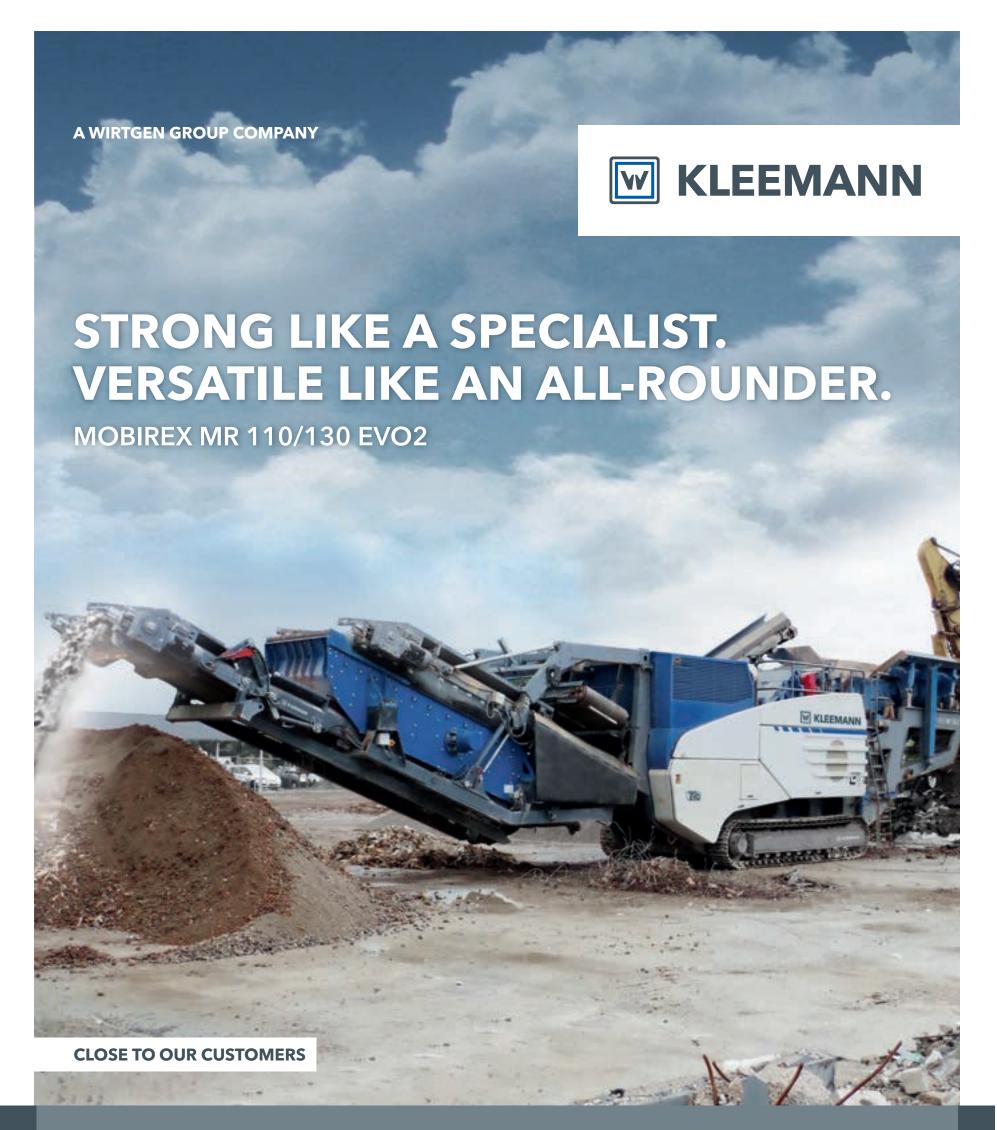












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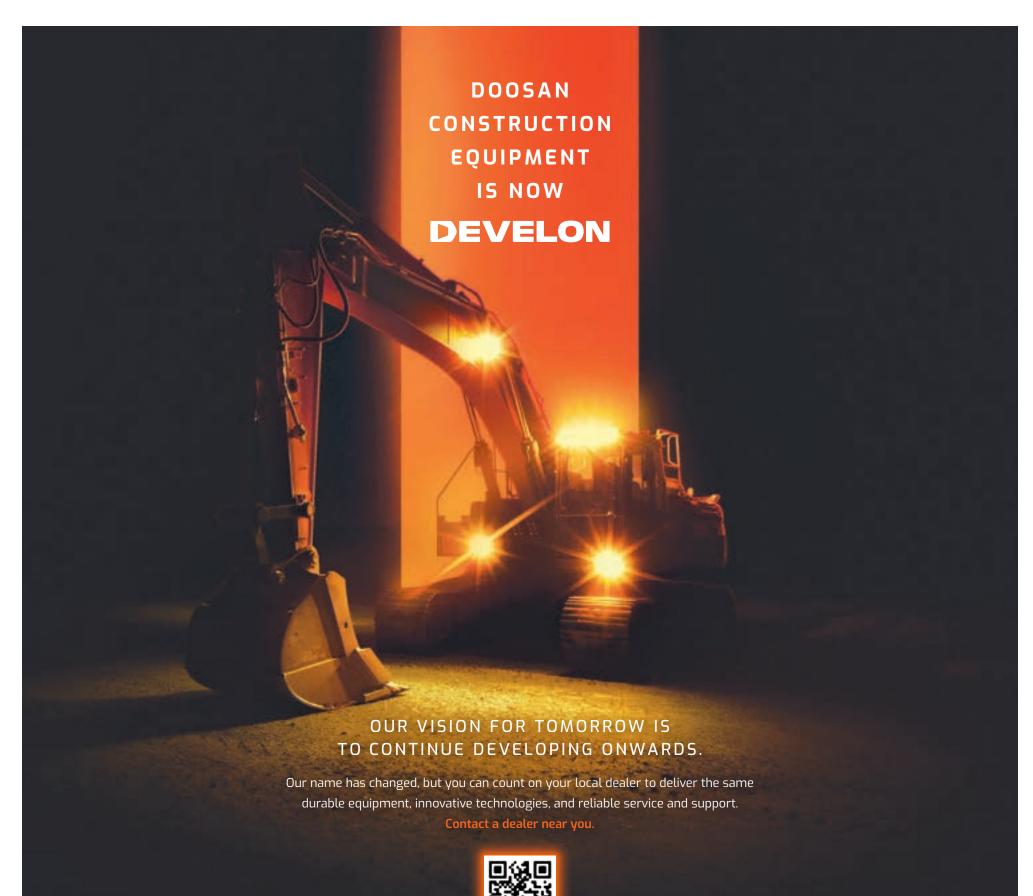












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# An arsenal of attachments allows demolition robots to take on any task

By Jeff Keeling, Vice President of Sales and to remove 38 stories using crushers and Marketing for Brokk Inc.

For interior and top-down demolition, many contractors rely on remote-controlled demolition robots.

The machines provide impressive powerto-weight ratios and the smallest models fit through standard doorways and are light enough to transport using a passenger eletight spaces.

design their demolition robots starting from the tip of the breaker to calibrate hydraulic flow. This increases efficiency and breaking capacity, but also results in less wear and tear on the carrier for a hardier unit overall.

selling these machines short. A range of attachments are available from manufacturers, allowing operators to tackle a variety of ers also make material handling easier. The tasks, such as material handling, excavation, resulting debris is a uniform size, and steel surface preparation and more.

Selecting the right attachments is key to unlocking the full potential of these mafor optimum efficiency with remote-controlled demolition equipment.

# **Concrete crushers**

Next to hydraulic breakers, crushers are probably the most common attachment used by demolition contactors. These attachments reduce noise and vibrations, so they can be used in several sensitive environments.

Where breakers use force to knock down a wall, crushers simply chew up the concrete, leaving rebar exposed. To do this, crushers require access to an exposed edge of the structure being demolished, either on the top, side or end, in order to break it down. For top-down applications where noise and vibration constraints are primary concerns, crushers allow contractors to work during the day, in some cases without the neighbours even noticing.

remote-controlled demolition robots. The company's primary focus was mitigating disruption to the local area with the dust and noise that accompanies any demolition project. After erecting a hoarding system around the top of the building, the demolition area was essentially hidden from the ground and neighbouring buildings. The contractor worked down through the building's floors, vator, making them ideal for demolition in systematically crushing concrete and cutting reinforcement steel. Working with two demo-For optimum performance, manufacturers lition robots, crews were able to complete one floor every three to four days, taking down the entire 38 stories in nine months. Curious residents, unable to see or hear what was going on, questioned if the project was actually progressing until the protective However, solely relying on a breaker is hoarding structures were removed and the top of the landmark structure had disappeared.

In addition to "silent demolition" crushis separated for recycling during the initial demolition instead of having to remove it later.

For maximum efficiency, pay attention chines. Here are four attachments to consider to the jaw opening and crushing force. To easily take on concrete slabs measuring 44 to 56 cm thick, a crushing force from 44 to 54 tons is best. Wear-resistant, replaceable steel alloy crusher tips and cutter blades, as well as a full 360-degree rotation are also recommended.

# Metal and combi shears

Shears are another attachment that, when paired with demolition robots, may increase safety and productivity on a demolition jobsite. As with breakers, crushers and grapples, manufacturers have taken advantage of the maneuverability and precision available from demolition robots to optimize their shear attachments, reducing the need for larger crews and handheld torches in several applications.

Due to floor load limits or other access restrictions for larger equipment, contractors have traditionally relied on handheld torches Recently, a Canadian contactor was able for metal cutting tasks on interior demolition





projects. The use of hand tools for cutting tionally, a hydraulic 360-degree rotary drive concrete reinforcement, sprinklers, conduit, wire and cable comes with potentially life-threatening risks for workers.

Using a remote-controlled tool carrier with a shear attachment eliminates many of the associated risks. Shears pierce or cut through material, rather than burn through it like a torch. By removing heat from the equation, operators are also eliminating sparks, flying embers and fumes. Additionally, compact demolition robots can access confined spaces and areas with low floor loads. Using shears in these situations offers a mechanical solution that keeps operators safely on the ground while providing a good view of the work area.

Look for shears with a high power to weight ratio. This allows for optimal cutting power in a smaller package, making it easier to maneuver the shears in tight spaces. Addi-



provides pin-point accuracy.

# Multi-purpose grapples

Perhaps the most underutilized demolition attachment is the grapple. This versatile tool is ideal for soft demolition, separation and sorting applications. It can also be used for support tasks before, during and after the primary demolition.

Grapples function like a rudimentary hand with two fingers and a thumb for pinching, pulling and sorting. When paired with a remote-controlled machine, the grapple can provide significant time and cost savings over manual demolition methods in tight, confined spaces. In many cases, it removes the need for harnessed workers on ladders or scaffolding. For example, the

Continued on Page B4

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Continued from Page B3 - Beyond the Breaker

to grasp structural elements such as drywall, ceiling sections, piping, steel drums and HVAC ducts, which the remote-controlled machine can then easily pull down. Remote operation also means workers can position themselves away from any falling debris while maintaining a good view of the work.

Grapples are not just for demolition. Grapple attachments can also be used for lifting, moving and support during construction. Depending on the jaw opening and carrier size, these tools can lift materials up to 75-cm in diameter. When paired with a demolition robot with exceptional reach, this means operators can remain safely on the ground and out of the drop zone for a few overhead tasks.

Additionally, once materials have been pulled down, the precision and flexibility of the remote-controlled demolition machine with the grapple attachment makes it easy to pick up and sort even small debris.

Here again, jaw opening is important for overall productivity. Additionally, a 360-degree hydraulic rotation circuit should be considered for fast and accurate positioning. For picking, sorting and material handling, boltable grip plates allow operators to complete those tasks without switching attachments.

# **Buckets**

Finally, no suite of robotic demolition attachments would be complete without a increase efficiency for confined applica-

highly articulated attachment can be used tions such as excavation, digging trenches, material handling, sorting, separating and loading debris.

> Since they are primarily designed to optimize breakout forces for hammering above and in front of the machine, the demolition robots' boom design provides ample power for digging in rocky soil and heavy clay. It also provides increased reach and maneuverability compared to most similar-sized mini excavators.

> As well, an innovative a three-part arm allows demolition robots to work closer to the carrier body, minimizing the need to reposition. Compared to the two-part excavator boom, the demolition robot's flexible three-part arm also requires less height to extend, making it ideal for confined spaces. Most models only require 183 to 213 cm of height clearance for excavation, allowing operators to work in several situations with low overhead clearance, such as tunnels and utility applications. Smooth, precise movements and a remarkable range of motion mean operators can dig both toward and away from the machine by simply switching the direction of the bucket.

> Using a bucket and remote-control demolition robot also provides increased safety compared to an excavator. Remote-control operation keeps employees safely on the ground and outside the immediate work zone, protecting them from dust and flying

Manufacturers offer customized buckets bucket or two. These multi-purpose tools to fit an operation's specific needs for maximum efficiency.



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# **LOOKING BACK AT ATTACHMENTS**



By HCEA Canada

Pictured here in 1953 is an I-H TD9 crawler tractor equipped with a Malo brand overhead loader attachment at work in the Hamilton, Ontario, area.

Owned by Benny Haulage Ltd., this hydraulically operated unit represented the next generation of overhead loaders.

Previously, overhead loaders were cable operated by winch. This overhead loading attachment provided a method of excavation that decreased crawler undercarriage wear and increased productivity.

Several years prior, the Sargent Manufacturing Company had partnered with Cleveland Tractor Company (Cletrac) to provide equipment owners with several versatile, tions, including log grapples and backhoes in addition to a dozer blade.

As popularity increased for overhead loaders in the 1940s and 1950s, several Canadian firms introduced their version of the overhead loader, sometimes called the 1950s to feed one of their port-"overshot loader." The Barber Machinery Co. of Calgary built and the Hoover Machine Co.,



based in Edmonton, Alberta, operational in the near future. manufactured the Hoover loader/dozer version.

HCEA Canada is fortunthis machine was used in the sure to attend. able crushers.

the Malo loader shown here ic display. However, it's on check our website hceacan-

The Historical Construction Equipment Association's (HCEA Canada) 2023 events cable-operated loader op- ate to have a Caterpillar D4 include Wheels & Tracks in equipped with an Athey Motion, held in June, and brand overhead loader that the Last Blast in October. was donated by Bannerman Both events are held at the Construction Ltd. based in Simcoe County Museum. To Kincardine, Ontario. Now see more than 60 restored retired, Don and Larry Ban- pieces of vintage construcnerman, remember when tion equipment in action be

> HCEA Canada is a proud Heritage Partner of the Sim-The unit is currently on stat- coe County Museum. Please our list of machines to make ada.org for updates.





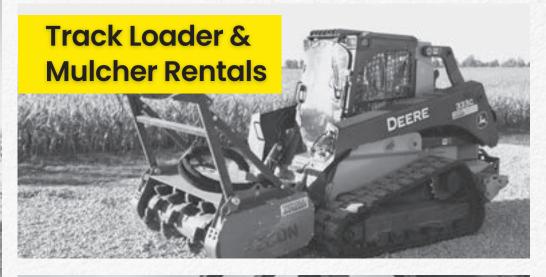
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# **Rockwheel Americas acquired** by Exodus Global

Exodus Global has align with RockZone Global. and support," Kogelmann announced it has acquired attachment distributor Americas is a great fit. Their Rockwheel Americas.

RockWheel, RockCrusher attachments, which are used extensively in the excavation, and mining industries.

As a new division of Exoas RockZone Americas to reflect the product line and to

"The addition of RockZone The company is the North dovetail perfectly with our American distributor for existing product line up," said Richard Currie, Exodus and RockScreener hydraulic Global's vice president of

"We are excited to enhance demolition, pipeline, utilities the customer relationships Rockwheel has established with our product support dus, Rockwheel will operate and service capabilities, as well as bring these products to a whole new group of customers,"

> Exodus Global will continue to operate RockZone Americas out of its current location in Bellefonte, Pennsylvania. As well, seven new team members will join the in Superior, Wisconsin, Clenew division, including director of sales, Chip Kogelmann and inside sales manager, Cathy DeSanto, both with more than 15 years of experience in the application of these innovative tools.

"Exodus Global is the ideal partner to take the RockZone attachments to the next level of customer reach, service Wisconsin.

"I'm thrilled to team up industry-leading products with this group, which has a culture focused on teamwork, quality and customer experience. Combined with the innovative and robust RockZone attachments, this is a true gamechanger."

> Founded in 2008, Exodus Global is a manufacturer and distributor of products for the construction, demolition, and recycling industries. The company's brands include ShearCore, BladeCore, Connect Work Tools, OilQuick Americas and now RockZone Amer-

> Operating out of facilities burne, Texas, and Bellefonte, Pennsylvania, Exodus Global is one of the fastest growing hydraulic attachment suppliers in North America.

> Last year, Exodus Global and OilQuick announced a joint venture to begin manufacturing the OilQuick Coupler system in Superior,



# **Genesis Attachments** introduces its largest Razer

Genesis Attachments has cluding general and bridge unveiled the new GDT 890, demolition, concrete recycits largest Razer demolition tool available.

The new attachment was introduced at the National Demolition Association's annual convention, held in Phoenix, Arizona in February.

tool is designed for today's new classes of excavators high-reach applications.

Fitting 180,000 pound and larger excavators, the 9,072 kg GDT 890 features an industry-leading 1.6 metre jaw opening with a 1.5 metre jaw depth and a reach of more than 4.2 metres, making it ideal for large, high-reach demolition projects.

In addition to high-reach demolition, the GDT is a versatile tool for jobs of different

ling, and C&D processing, thanks to its short, flat-top head with bolt-on bracket that simplifies installation and switching between ex-

Customers can also select The GDT Razer demolition from several arrangements of reversible crushing teeth to further configure their GDT for optimal material process-

> Furthermore, the reversible, long-life crushing teeth are quickly and easily replaced, eliminating build-up.

As well, four-way indexable cutting blades feature an apex that draws material deeper into the jaw for more efficient

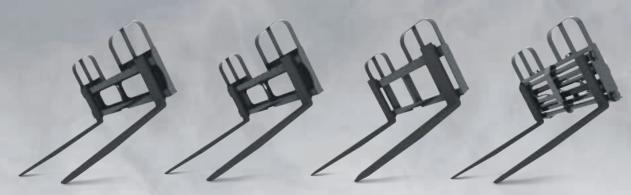
The GDT 890 is the fifth demolition tool introduced sizes and applications, in- in the Razer series.



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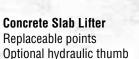
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# Liebherr's Likufix quick coupling systems rebranded as Solidlink

Liebherr will now market its combination options with the machine to the attach- driver's cab, the possibility out of control during the damage during the coupling ling systems under the earthmoving machines and unit. brand name Solidlink.

The new branding for the system was introduced at that will be readily under-tions increasing its capacity ConExpo in Las Vegas in mid-March.

coupling system delivers quick coupling system in therefore makes a signifimaximum efficiency and the future," explained Ru- cant contribution to both safety for customers for dolf Arnold, sales director efficiency and safety on site." changing attachments. atLiebherr-Hydraulikbagger Solidlink is suitable for use GmbH. with Liebherr excavators or manufacturers.

An advantage of Liebherr's quick coupling systems is its versatile, manufacturer-independent application and attachments.

stood globally. We would by up to 90 per cent," Arnold tem's proximity sensor also like to use this to continue to said. "The fully automatic monitors the correct pos-The time-tested quick establish our fully automatic quick coupling system ition of the attachment in

with machines from other idlink quick coupling system host of features. Solidlink is allows attachments to be hydromechanically mountchanged easily and convened to deliver an ideal balance display. iently from the driver's cab in all axes and degrees of at the touch of a button. It freedom. As the attachment hand control process means

"Solidlink is a brand name machines' possible applica-

Liebherr's quick coupling system also guarantees The fully automatic Sol-safety, thanks to a whole

danger zone during the at-"Solidlink increases the tachment change process can be ruled out.

> The quick coupling systhe locking position. If the pins are extended during coupling without the attachment tool being connected to the quick coupler, the machine operator is alerted by a warning sound in the cab and a warning signal on the

Furthermore, the twoquickly and safely connects can be changed from the the machine cannot operate

Likufix line of quick coup- a wide range of different ment to form a powerful of personnel being in the coupling process and the process. An optional bracket safety risks this may create on the coupling block also can be eliminated.

> The high strength of the system is due to a solid metal tem will retain its Likufix plate and recessed hydraulic couplings that prevent French-speaking countries.

protects the hydraulic lines.

The quick coupling sysbrand name in German and



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# An entirely new crane platform

Link-Belt Cranes debuts its all-new 300|AT all-terrain crane at ConExpo

To develop its new 300|AT all-terrain crane, Link-Belt Cranes sheaves and Teflon wear pads cut maintenance combined voice of the customer data with engineering and manufacturing research.

The result is an entirely new 300-ton crane platform that single-hand operation rope guard and three made its debut at ConExpo in Las Vegas.

"We spoke extensively with our customer base and feel like we have delivered," said Andrew Soper, product manager of SmartFly telescopic trucks and all-terrain cranes. "They want a crane that travels down the road efficiently, goes together on a jobsite quickly, has a strong chart, and is reliable."

The 300|AT is a five axle all-terrain crane built with transrequirements. Its single engine platform is HVO fuel ready and EPA on-highway and CARB on-road compliant.

"This crane represents Link-Belt's long-term AT investment, which goes back to 2009 with construction of our own formed boom bay and subsequent ATC-3275 introduction," Soper said.

# Lifting ability

The 300 AT is well equipped with a seven section 13 to 72.5 metre pin and latch, greaseless formed boom and optional two-piece 12.8 to 21.6 metre on-board hydraulically offset fly as well as two 7.6 metre lattice extensions. The maximum attachment will achieve a tip height of 112 metres and an efficient modular counterweight configuration adds to the 300|AT's versatility.

The maximum counterweight is 73,481 kg with four comfort while driving. overflow truckloads. For improved mobility and efficiency for a variety of jobsite scenarios, the 300|AT can be set up with two overflow loads and 33,565 kg of counterweight.

option of transporting the 300|AT with its upper 3,628 kg is unimpeded in any kind of weather with large sweeping counterweight tray and still stay below 72,574 kg gross wipers in the front and top, and strategically-placed vents vehicle weight.

The 2.4 metre heavy lift fly provides robust capacities and line separation for two load line operation in applications like precast wall panels. Time tested features such as greaseless

and service costs. Additional standard boom features include a wireless wind speed indicator, work lights on the boom base section.

The 300 AT also features SmartFly. Link-Belt's intuitive SmartFly system ensures proper fly erection and stowage sequence while minimizing work at heights.

A single 554 hp Cummins X15 diesel engine with ZF portability in mind, meeting all North American transportation Traxon automated manual transmission powers the 300|AT. The transmission features improved shifting performance and offers integrated intarder braking with paddle shift controls for easy stop-and-go at highway speeds. As well, the 300|AT features a new power transmission system for efficiently powering of upper hydraulic functions. It offers a 24-volt electrical system with an optimized, modern CANBUS communications.

# In the cab

Customers will recognize the purpose-built two-person carrier cab from the 175 AT on the new 300-ton crane. The interior features amenities such as automatic climate control, Bluetooth radio, mobile phone charging and LED lighting. An air ride seat with lumbar support improves

The operator's cab is tailored for all-terrain operations. Pulse 2.0 with its 25 cm touch display is at the heart of this crane with features and controls that are intuitive, Another improvement to the 300|AT's mobility is the adaptable and within arm's reach. The view from the seat for quick defrost.

> Another new feature to Link-Belt's all-terrain lineup is the improved flexibility of V-CALC, an infinitely variable outrigger positioning that allows for setup in tight jobsite

conditions where outriggers require being unevenly extended. All capacities are printed in crane rating manual and automatic swing function kick-out works to maintain forward and backward stability.

Standard carrier features that operators are accustomed to include four points of access to the flat carrier deck, a comprehensive Site Vision camera package, and the premiere lighting package on the market for nighttime operations.

# Other features of the 300 AT include:

- Wireless rigging remote
- Tire pressure and temperature monitoring system
- SmartStack counterweight detection system
- Tie offs at all dedicated anchor points
- Flat carrier deck ■

# JLG Industries completes acquisition of Italian manufacturer Hinowa

JLG Industries has completed including agricultural, landscape time for the business, and we are work platforms (MEWPs). its acquisition of Hinowa S.p.A., adding a new brand to the company's access segment.

expansion of its product portfolio enables the company to strengthen its specialty applications offerings and increase its presence in niche industries,

and vegetation management.

"The acquisition was about growing the company and grow-According to JLG, this ing our capabilities," said JLG Italy, Hinowa became well-President Frank Nerenhausen.

strong brands. Joining forces allows us to unlock more potential vancement of lithium-ion battery globally. This is a very positive technology in mobile elevating

excited to welcome the Hinowa team to the JLG family."

Founded in 1987 in Nogara, known in the industry for its "JLG and Hinowa are both innovative track designs and as an early adopter in the ad-

members and two facilities, a 250,000 square foot manufacturing facility and a 50,000 square of the access segment of JLG's parent company Oshkosh Cor-

The Hinowa brand will be re-

tained on its line of track-based Hinowa's more than 200 team aerial work platforms, mini dumpers, lift trucks and undercarriages products.

JLG-branded compact crawlfoot parts facility, are now part er booms, which Hinowa has produced since 2010, including electric, hybrid and diesel-powered models, will continue to be



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# Raimondi flat-tops help build new apartments near Yorkdale **Shopping Centre**

plied two Raimondi flat-top tower cranes to a residential rental development across the street from Yorkdale Shopping Centre in North York, Ontario.

Canadian equipment management company that operates under the Straw Construction Group.

The two Raimondi cranes were selected due to the jobsite's dimensions and the project's tight completion deadline that require a machine with significant hoist speed.

"The decision to utilize these two Raimondi's on this important project is based on the superior lifting capacity of the machines, as well as the fast lifting and loading speeds," said Sante Paglia, director of JESS Equipment

The MRT234 delivers a maximum lifting capacity of 12 tonnes and is freestanding at a height of 35.6 metres. The machine has been configured with a jib length of 48.4 metres and a tipping load of 5.6 tonnes. Equipped with a 55-kW winch and a drum capacity of 700 metres, the flat-top maximum lifting speed is 22 metres per minute.

stands at a height of 36.2 two of Raimondi's heaviest metres, is at work with a jib lifting machines in order to length of 42.37 metres and a ensure its successful deliv-7.6 tonne tipping load. The ery." ■

JESS Equipment has sup- 16-tonne maximum lifting capacity crane is fitted with a 75-kW winch and 700-metre drum boosting a maximum lifting speed of 26 metres per minute.

The machines had a stag-JESS Equipment is the gered installation schedule, in line with the jobsite progress. Both cranes, erected by Total Crane Hoisting & Rigging, will remain onsite for a total of about 18 months.

> "With the jobsite located in close proximity to Yorkdale Shopping Centre, one of the busiest centres in Toronto, as well as the Highway 401, one of the most trafficked highways in Canada, the biggest challenges of the project were to ensure smooth operations when accessing the site and to guarantee that the cranes do not swing outside the boundaries of the site," Paglia explained.

> Upon completion, the Fitzrovia Real Estate development will feature three contemporary towers hosting 760 residential rental units, commercial spaces and several modern amenities.

"Currently, we have seven Raimondi cranes within our fleet, all at work at different jobsites around the Greater Toronto Area," Paglia said. "We are proud to participate in this landmark project by The MRT294, which free- Fitzrovia and have utilized



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# Palfinger is expanding its North American footprint with a new regional headquarters

To strengthen its presence in the North American market, Schaumburg, Illinois.

The new office, which is scheduled to open in the second quarter of 2023, will include an integrated demonstration and training centre.

"We are here to stay. We are making this clear with the opening of our new headquarters in 2023," said Ismael Daneluz, vice president of sales and service for North and Latin America.

"Supported by our absolute focus on our customers, we will use the next five years to significantly grow our market share in all product segments."

Palfinger has also rebuilt its management team for the

Alongside Daneluz, the company has added five more managers in the areas of research and development, operations, human resources, procurement and finance.

Alongside the new office, the company's presence in North America is already strong, and includes a sales and service network of more than 1,000 partners, a mobile fleet of more than 100 service vehicles, four manufacturing sites and 13 locations that offer custom-built solutions.

Palfinger is also developing combinations of physical and digital applications to offer its customers hardware and software from a single source, as well as highly connected, individually configured products.



Palfinger's FHS series of truck-mounted forklifts.

The approach is creating a product offering geared Palfinger will open a new regional headquarters in towards the North American market. In 2022, the new generation of FHS truck-mounted forklifts was launched. The machines are purpose-built to handle the specific applications and needs of the North American market.

The 2,500-kg capacity class FHS series forklifts are avail-

able in standard, standard reach, four-way and four-way reach configurations with 10 or 12 foot masts.

To strengthen and expand the aerial work platform product line globally, Palfinger is investing in solutions that are specifically designed for the needs of the customers in the region.











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# Genie introduces a lithium-ion battery option for its GS E-Drive slab scissor lifts

demand for cleaner, quieter, certified by the independlow-maintenance equipment, Genie has introduced Underwriters Laboratory (UL) its new Lithium-Ion battery against fire, electric shock and option for GS E-Drive slab explosion. scissor lifts.

teries have been specifically emissions. In many cases,

ent certification organization

"Today's electrified equip-Genie Lithium-Ion bat- ment doesn't just reduce

requires less maintenance," said Genie product manager Christian Dube. "That said, battery maintenance and replacement is still one of the biggest ongoing expenses for scissor lift owners."

According to Genie, its lith-

ment, and is the only battery required for the normal lifehas an expected lifespan of about 10 years.

Introduced in 2020, Genie

In response to a growing designed for MEWPs and are it also performs better and ium-ion battery eliminates E-Drive scissor lifts feature it delivers less energy, which drive motors and 70 per cent fewer hydraulic hoses span of a scissor lift. Based on and fittings. Genie's E-Drive Dube said. extensive testing, the battery lithium-ion scissor lifts reduce maintenance costs by ium-Ion scissor lifts can an additional 11 per cent compared to flooded lead acid (FLA) batteries because the Lithium-Ion batteries do not need to be watered or replaced.

> battery has a built-in heater that maintains the ideal temis stationary.

machines with a standard FLA battery usually generate enough heat in the battery to continue working. However, most people aren't continuously lifting or driving; they're stopped the FLA battery gets colder, scissor lifts. ■

maintenance and replace- brushless, fully sealed AC means the operator needs to take a break and move the lift into a warmer environment,"

> Genie GS E-Drive Lithbe recharged in about four hours, which is 33 per cent faster than a standard FLA battery. As well, partial charges won't damage the battery.

As rental companies look As well, the lithium-ion to give older equipment a second life on the used equipment market, Genie perature, even when the lift Lithium-Ion powered scissor lifts can be retrofitted with "When in use, electric FLA batteries when the unit reaches the end of its useful life in a rental fleet.

The Lithium-Ion battery option is available globally on nearly all GS E-Drive slab scissor lifts, except for the GS-1432m and GS-1932m and doing work, allowing micro scissor lifts and the the FLA batteries to cool. As GS-4046 and GS-4655 slab





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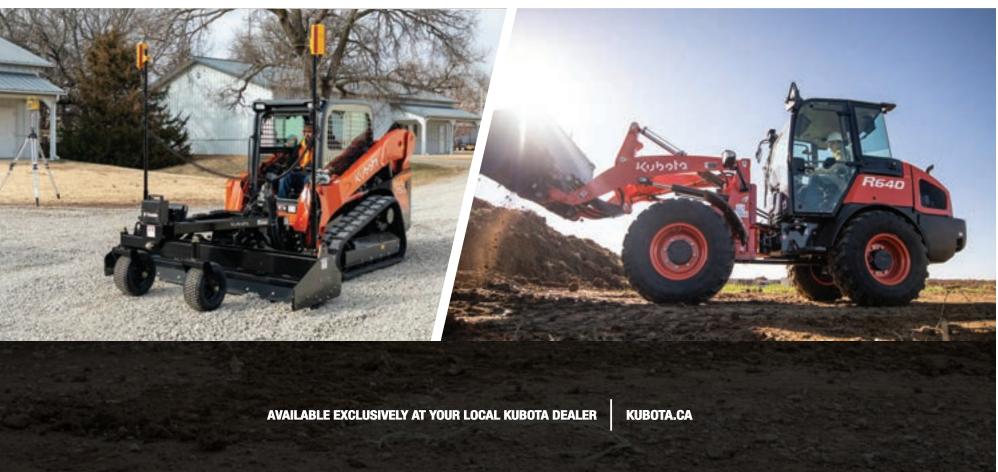




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Vaughn Ali



**Betsy McDevitt** 

# Vaughn Ali and Betsy McDevitt expand roles to include ShearCore

Exodus Global has for the southeastern states. uct portfolio. Being able to and Tennessee. McDevitt ShearCore.

Vaughn will be responsible for sales for both the Work Tools product lines and crackers to my prod-

announced that Vaughn Ali has been a part of the solve customers' needs in an has been a part of the Bla-Ali and Betsy McDevitt have Connect Work Tools team, industry I love is what I am expanded their regional since 2021 serving as the all about. This opportunity business manager roles to regional business manager, include responsibility for and has two decades of experience serving the scrap and demolition industries.

ShearCore and Connect add the Fortress shears Ali said.

comprehensive solution of industry leading products to our customers and dealer "I am very excited to partners in the southeast,"

sales in Oklahoma, Arizona Devitt said.

deCore team since 2017.

"In addition to providing allows me to provide a more my customers with personalized customer service and top-quality replacement parts for their shears, I now have the honour of selling our Fortress shear line and McDevitt will maintain I look forward to being even her role with BladeCore more of a resource for the across the midwest, and add men and women I serve in responsibility for ShearCore this amazing industry," Mc-



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# **Judy Gaus to retire from AEM**

Judy Gaus, a longtime Association of Equipment Manufacturers (AEM) leader and senior vice president of HR & operations has announced she will retire, effective June 30.

Gaus joined AEM in 1998 as executive assistant, bringing her 16 years of human resources management Judy Gaus experience in higher education and mobile device that contributes to staff retechnology.

"It has been an honour and privilege to work at AEM, and I'm particularly proud of building an HR team that staff and leaders trust, and that staff found approachable, Gaus said. "Twenty-five years have flown by, and, as they say, time flies when you're having fun. I'll truly miss AEM, the fulfilling work and the incredibly talented people here, yet I'm really excited for what's next."

During her 25 years with the association, AEM achieved staff retention tion and benefit program beyond AEM."



cruitment and retention, as well as oversaw the design and build-out of two best-in-class AEM offices in Milwaukee and Washington,

"I will greatly miss Judy to be authentic, caring and for not only her longtime leadership and guidance, but also her sense of humour, willingness to try new things and positive attitude. I'm so happy for her as she embarks on her next adventures," said AEM President Megan Tanel.

"Judy is proud of helping build a workplace and community that attracts incredibly talented staff who enjoy working together and rates consistently at or below are committed to supporting benchmark, beat time-to-our members. We thank Judy fill benchmarks in hiring for her contributions over quality staff, developed a the past 25 years and wish competitive compensa- her all the best in her life

# **Cummins names three new vice presidents**

three of its leaders to vice on our commitments to our president positions, effective March 1.

Jane Beaman will become vice president and general manager of Cummins' pickup and global bus business, Andreas Lippert takes on the role of vice president of new power engineering and José are experts in their fields and Samperio is now vice president and general manager for the North America on-highway segment.

Cummins Inc. has promoted strategy, ensuring we deliver customers, including helping them navigate the energy transition, and innovating critical technologies," said Jennifer Rumsey, president and chief executive officer of Cummins Inc.

"Jane, Andreas and José hold strategically important roles to Cummins' long-term success. All three excel at modelling our leadership be-"These three leaders have haviors and building diverse, roles critical to advancing our high-performing teams."



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