ISSUE 1/

NATIONAL HEAVY EQUIPMENT NEWS, DELIVERED, SINCE 1966

EQUIPMENT JOURNAL

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Takeuchi launches hydraulic hammer line





John Deere adds new disc saw felling head





Liebherr introduces LH 26 M timber truck

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ISSUE 14 October 24, 2022

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LETTER FROM THE EDITOR

Growing pains: looking at construction labour in Canada

The construction indus- by extreme weather events, September following the sectry in Canada employs people, according to Sta- Atlantic region. tistics Canada, which is 600,000 more than reported in the year 2000.

This growth is expected to continue, with the Canadian jected to record a Compound Annual Growth Rate (CAGR) of 8.5% by 2024.

This is no surprise, given infrastructure projects on the horizon in Canada.

Through the Investing in Canada Plan, the Canadian government has committed to spending over \$180 million to improve infrastructure over the next twelve

There's also mounting pressure on the industry to help improve infrastructure and repair areas affected

tor continues to grow, more many contractors are still ground to meet demand.

BuildForce Canada's naconstruction industry pro- tional report, Construction and Maintenance: Looking Forward (2021–2030), foreemployment is expected to "But job openings going into the abundance of major rise by 64,900 workers over the next ten years. Meanwhile, there will be a need to replace more than 156,000 retiring workers by 2027.

> Looking to our neighbours south of the border, where the sector's unemployment rate is nearing an all-time low at 3.4%, the Associated General Contractors of America (AGC) reported that and technical education the construction industry added 19,000 employees in

such as the recent Hurricane tor's largest wage increase for approximately 1.4 million Fiona that tore through the hourly workers in 40 years.

Association officials said As the construction sec- that even with the pay raises, boots will be needed on the having a difficult time finding qualified workers to hire.

"Contractors are raising pay faster than other sectors and are hiring more workers," said Ken Simonson, the ascasted that construction sociation's chief economist. September were at record levels and the industry's unemployment rate last month was close to an all-time low, suggesting that jobs will remain hard to fill."

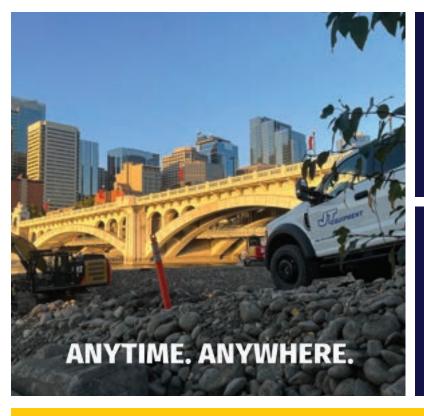
> To help with these labour shortages, AGC officials are calling on Congress and the Biden administration to boost funding for career programs.

As workers from the ba-



Max Carrington // Editor editor@equipmentjournal.com

by-boomer generation continue to retire, and we stare down the barrel of our own labour shortage in the construction industry, I think we should call on our own government to substatially invest in education and training programs to help bring new talent into the construction sector. ■



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FAE enhances lineup of remote controlled explosive mine clearing equipment

FAE is enhancing its demining line by upgrading the PT-300 D:Mine remote controlled tracked carrier and introducing the new 300/FD flail demining head.

PT-300 D:Mine upgrades

The PT-300 D:Mine is a special vehicle designed to withstand the most extreme forces. It is used all over the world for explosive mine clearing and it is effective against anti-personnel and anti-tank mines, even in the toughest working conditions.

It can be equipped with a demining head and other types of FAE attachments, such as a forestry mulcher or tiller, stump cutter or dozer blade.

The 2022 update comes with some major upgrades. First is the new Caterpillar C7.1 engine, available in 275 or 302 horsepower, depending on the emission level.

Also, there are new hydraulic pumps and upgraded electronics, including new control units and sensors.

The oil cooling system now has a single radiator with anti-clogging frame. The fan system is now proportional, reversible and equipped with hydraulic controls. The existing Load Control and Floating functions have also been electronically enhanced.

Also improved is the new PT-300 D:Mine's remote control. The 3.5-inch display is more advanced than before, and the ergonomic controls have been updated. The communication signal is at 2.4 GHz for a more stable and secure connection and better maneuverability.

300/FD flail demining head

Along with the new carrier, FAE has also introduced the 300/FD, a new head made specially for demining.

The 300/FD head has a flail rotor that clears mines by detonating ordinance as it comes into contact with the flails, so the power of the explosion is then concentrated on the flails. This provides one more option for industry operators.

According to FAE, these innovations offering government and military agencies, NGOs and organizations operating in active war zones around the world an increasingly effective product for reclaiming and restoring otherwise dangerous and unusable land for public use.



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CAT D6T LGP (2012) - 7,295 Hours 6-way Blade, NEW 30" SALT U/C, Counter-weight Drawbar, Ripper Available.



JOHN DEERE 772GP (2010) - 6,765 HRS 6 WD, 17.5R25 Tires, 14' Moldboard, Snow-wing, Work Ready.



CAT 980M (2015) - 8,410 Hours Aggregate Handler Spec, Spade or GP Bucket, 29.5R25 L-5 Tires, All Servicing & Repairs being Completed.



CAT 980M (2015) - 9,960 Hours 3027 idle hrs, Choice of Buckets L4 Tires, Rear Camera, All servicing & Repairs Completed.



(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, SU Blade, Drawbar. Ripper / Winch Available



(2) CAT 988K (2016) - 7,650 & 8,810 HRS 1 - High Lift Spec & 1 Std Boom Spec, Auxiliary 3rd Valve, Auto Grease, Spade Bkt.



CAT 980M (2014) - 8,910 Hours Aggregate Handler, 7.75 CYD Bucket, L3 Tires, Auto Grease, Rear Camera, All servicing & / Repairs Completed.



CAT 980M (2016) - 7,885 Hours Aggregate Arrangement, 7.75 CYD Bucket, Auto Grease, Rear Camera, All servicing / Repairs Completed.



(2) KOMATSU WA500-8 (2016) **8500 & 9600 Hours**, 8 CYD Bucket, 29.5R25 Tires, Bucket Scale All needed servicing & Repairs being Completed.



KOMATSU WA500-8 (2017) - 6,659 Hours Yard Loader Arrangement, 8.25 CYD Bucket, 875/65R29 Tires. All Servicing / Repairs Completed.



CAT 745C (2015) - 5895 Hours NEW 29.5R25 Tires, Dealer Maintained, All Needed Servicing / Repairs Will Be Completed.



CAT 730C (2015) - 9,988 HRS 23.5R25 Tires, Rear Camera, All needed Servicing & Repairs to be Completed.



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



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



VOLVO A30F (2014) 4,940 Hours - 1,938 Miles 23.5R25 Tires, Rear Camera, All Servicing & Repairs to be completed. Very Clean Truck



Liebherr to introduce new LiXplore monitoring system at bauma

At bauma 2022, Liebherr's efficiency and comfort for mostly analogue, surround precisely placed, nor do the ality continuously ensures components product segment will be introducing LiXplore, its new digital camera-monitor system.

The permanent and precise monitoring of work processes and routes is a of mobile machines. Whether construction equipment, agricultural machinery or forklifts, blind spots due to the size of the machine, as of vision impair the view from the cab. Demanding environmental conditions, such as vibration, strong temperature fluctuations difficulty.

Camera-monitor systems can be an ideal solution when it comes to monitoring work processes at simultaneously. The systems can display multiple views on one single monitor that features high-quality, sharp imaging. According to Liebherr, its high-resolution

the operator.

"For more than ten years, we have been producing digital Ethernet cameras and displays for mobile machinery. We are now merging our line," says Alexander Bertsch, GmbH in Lindau (Germany).

Liebherr's camera-monwell as obstacles in the field itor systems offer a high degree of flexibility. From ly and intuitively at the touch the number of digital cameras and angles to the size of the display, users are able **Simple and time-saving** to put together their system **calibration** and humidity add to the according to their requirements.

360° variant as an intelligent assistance system

The 360° variant LiXseveral operating sites plore Bird's Eye variant with a large fleet of maoffers operators a complete surround view of their machine's working environment. The system seamlessly merges the images from four mounted cameras into

an additional electronic conis thus simple in design and economically wired.

In addition to the classical experience and expertise bird's-eye-view, the system challenge for the operators into the LiXplore product allows users to define detailed views and overlays head of the sensor product according to their requireline at Liebherr-Elektronik ments and to assign the corresponding function keys to the display. Operators can switch between views quickof a button.

Prior to operation, users first have to adjust or calibrate their surround view system - a time-consuming task that should not be underestimated, especially chines. When developing Bird's Eye, Liebherr's components product segment, therefore, attached great importance to a simple system that can be calibrated within

view solutions that require distances to other objects high-contrast images have to be measured. Bird's trol unit (ECU), the system Eye is thus ideal for anyone, who wants to save time and money with a streamlined commissioning process.

MDC3 digital smart camera: the heart of the system

For the LiXplore product series, Liebherr relies on the high-performance MDC3 camera. The HDR functionwithout overexposure or underexposure, even in very dark working environments and in volatile light conditions from bright to dark. The highly robust cameras are based on years of experience derived from operation in challenging industries, such as construction or agricultural machinery.



Caterpillar waives retirement policy, Jim **Umpleby to continue** as chairman & CEO

Caterpillar has announced that its Board of Directors has waived the policy requiring Caterpillar's Chairman and CEO, Jim Umpleby, to retire at age 65. Umpleby has agreed to remain in his position beyond February 2023, when he turns 65.

"Waiving the mandatory retirement policy for Jim provides the Board greater flexibility with its CEO succession process," said Debra Reed-Klages, presiding director, speaking on behalf of Caterpillar's Board of Directors. "Jim has provided strong strategic and operating leadership for the company, and we look forward to his continued leadership of the Caterpillar team."



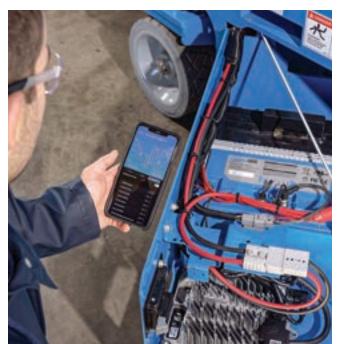
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Genie introduces a lithium-ion battery option for GS E-Drive slab scissor lifts

Genie has introduced a reli- That said, battery maintenable new lithium-ion battery option for its GS E-Drive slab scissor lifts.

According to Genie, its lithium-ion batteries are rigorously tested for longevity and reliability and have been specifically designed for MEWPs, with certification by independent certification organization, Underwriters Laboratory (UL), against fire, electric shock and explosion.

"Today's electrified equipment doesn't just reduce emissions. In many cases, it also performs better and requires less maintenance.

ance and replacement is still one of the biggest ongoing expected lifespan of about 10 expenses for scissor lift years and comes with a bestowners. Genie Lithium-Ion in-class five-year warranty. reduces those costs by elimand replacement. Purpose-

Genie's lithium-ion battery has a fully-sealed IP67 water and dust contamination. According to the results of extensive testing, it has an

Introduced in 2020, Genie inating battery maintenance E-Drive scissor lifts are already low-maintenance fully designed for use in machines with brushless, MEWPs, Genie Lithium-Ion fully sealed AC drive mois the only battery you'll need tors and 70% fewer hydraulic for the normal life of your hoses and fittings. Genie's scissor lift," says Christian E-Drive Lithium-Ion scis-Dube, product manager for sor lifts reduce maintenance costs by an additional 11% compared to flooded lead acid (FLA) batteries because housing that protects it from the lithium-ion batteries do not need to be watered or replaced.

> Lithium-Ion scissor lifts are productive even in extreme temperatures ranging from 49° C (120° F) to -29° C (-20°

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 and doing work, allowing the FLA batteries to cool. As the FLA battery gets colder, it delivers less energy, which means the operator needs to take a break and move the lift into a warmer environment," Dube says. "Genie Lithium-Ion batteries have built-in heaters that maintain the proper temperature, even when the scissor lift is stationary. This allows the operator to work continuously, without taking a break to warm up the battery—a real productivity benefit in a cold

environment." Genie GS E-Drive Lith-



recharged in just four hours, which is 33% faster than a standard FLA battery. This allows operators to charge On the jobsite, E-Drive a lift during breaks or over lunch in the event the machine didn't get charged the night before, or if it is being used for a second shift.

"Genie's Lithium-Ion bat-"When in use, electric tery solution is UL certified against fire, electric shock and explosion. And, with an expected battery life of at least 10 years and a five-year warranty, equipment owners can feel confident in the battery's quality and longevity," said Dube. "Although this is the only battery a rental company will need while they own the machine, for additional peace of mind, owners can also use Genie LiftConnect telematics monitoring to track battery performance for a specific unit over time."

Additionally, because many rental companies look to give older equipment a second life on the used equipment market, Genie asserts that its lithium-ion powered scissor lifts can be retrofitted with FLA batteries when the unit reaches the end of its useful life in a ium-Ion scissor lifts can be rental fleet.









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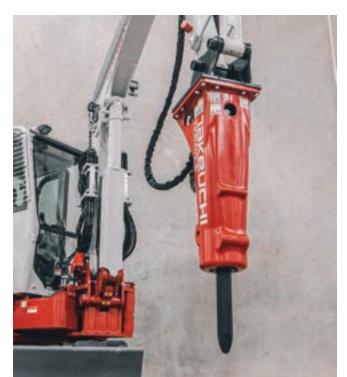
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Takeuchi launches new line of hydraulic hammers

sound-suppressed hydraulic hammer models to the Takeuchi Attachment Program, helping compact track loader and compact excavator owners accomplish even more with their machines.

"Hydraulic hammers are invaluable attachments for breaking up asphalt, concrete, rocks and other hard materials," said Lee Padgett, product manager for Takeuchi-US. "Contractors and others who perform demoof Takeuchi machines. And,

sound suppressed, they can the TB235-2 to the TB290. be operated in quieter en- Finally, the TKB1702-S is vironments with less noise compatible with the TB2150 disruption throughout the and TB2150R compact exsurrounding area."

Takeuchi's new hydraulic models with power-to-weight ratios suitable for a variety of applications. The TKB52-S, TKB72-S and TKB102-S are ris. Constant blow energy, or compatible with compact TB210R to the TB230. The TKB-302S, TKB402-S and lition and excavation will TKB802-S work well with find these hammers match compact trackloader models perfectly with a wide range ranging from the TL6R to the TL12V2/R2 and compact ex-

Takeuchi has added seven because our hammers are cavator models ranging from cavators.

> Providing excellent noise hammer line includes seven and vibration insulation, the sound-suppressed design of every Takeuchi hammer also protects it from dust and deb-"CBE" allows for a wide range excavators ranging from the of oil flow settings and protects the hammer against high back pressure. An integrated, membrane-type hydraulic accumulator eliminates nitrogen leakage and the need to recharge for lower operating costs and consistent impact

> > internal parts and no tie rods, as well as a 3-in-1 lower durability and simpler maintenance. A single retaining pin makes it easier and faster to replace the tool and tool bushing onsite when necessary. Swivel couplings on the medium-range TKB302-S,

The compact and medium both the hoses and hose hammer range feature fewer couplings for longer component life.

"Our new hydraulic hamtool bushing, for enhanced mers offer the same quality and durability that our dealers and their customers have come to expect from Takeuchi," Padgett said. "Rest assured, when you purchase or rent a Takeuchi-branded hammer, you're getting a reliable, dependable attachment that can improve your uptime



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aux., hyd. Choice of attachments.

of buckets - Hitachi ZX350 also available for rent.

CAT 318 Wheeled Excavator - VA Boom, Q/C,

CAT D6T - 6 way blade, ripper, grade control

D6N also available.



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2020 LINKBELT 145 X4, Blade, zero tail, Q/C,



CRAIG plow w/hydraulic removable wing. Can be modified to fit all loader types.



HITACHI ZX245 - Q/C, choice of buckets - CAT



CAT D5K LGP - grade control, A/C, 6 way blade.



2017 HITACHI ZX135 - Blade, zero tail, Q/C, choice of buckets, approx. 4,200 hrs



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Manitowoc to introduce new Grove cranes to a wider audience at bauma 2022

first time at bauma 2022.

According to the company, both cranes set new standards for strength and reach, pushing the envelope of what's possible for a fiveaxle all-terrain crane.

"We presented the GM- 150 t." K5150XL and GMK5120L our Wilhelmshaven facility having them on the booth at bauma will introduce them to a much larger audience," said Andreas Cremer, vice president of product management for mobile cranes at Manitowoc. "We are thrilled to present these cranes at the **Grove GMK5150XL** world's largest construction

redefine what's possible with it lifts 13 t. a five-axle machine in the capacity classes of 120 t and are interchangeable with

carrier cabs. The new cab customer needs. Taxi condesign seats the operator an figurations start from just 1 additional 235 mm from the t of counterweight and for centerline, enhancing visibility and maneuverability.

all-terrain class and these new model offers almost 69 board. two new models raise the bar. m of main boom. At 68.7 m,

those from the GMK5120L or any other Grove 150 t during customer events at Newgenerationofcarriercabs crane, simplifying logistics Grove GMK5120L Both the GMK5120L and and handling. The flexible configurations of 12t per axle, the GMK5150XL can carry up to 10.2 t of counterweight. There is also a heavyweight The Grove GMK5150XL counterweight configuraequipment exhibition and all-terrain crane provides tion of 16.5 t per axle, which

Manitowoc will be displaying are expecting lots of interest. increased capacity and a makes it possible to drive the the new Grove GMK5150XL In recent years, Grove has boom length that surpasses crane with an outstanding and Grove GMK5120L for the led the way in the five-axle most 220 t machines. This 30.9 t of counterweight on

> At just 2.75 m wide, it this Their outstanding taxi crane it can handle 8.1 t; at 66 m it model can access narrow jobfeatures, strength, and reach lifts 9.5 t and at almost 60 m sites. Also, with the MAXbase option for flexible outrigger Counterweight slabs configuration, optimizing setup and lifting position is quick and easy.

The Grove GMK5120L has in Germany last year. But the GMK5150XL come with counterweight configurations a capacity of 120 t and its the latest generation of Grove enable setup to be tailored to main boom has a reach of

With compact dimensions

tight jobsites. Furthermore, suspension. ■

of just 14.195 m overall length this is complemented by the and 2.75 m width, the GM- maneuverability of Grove's K5120L can offer access to MEGATRAK independent







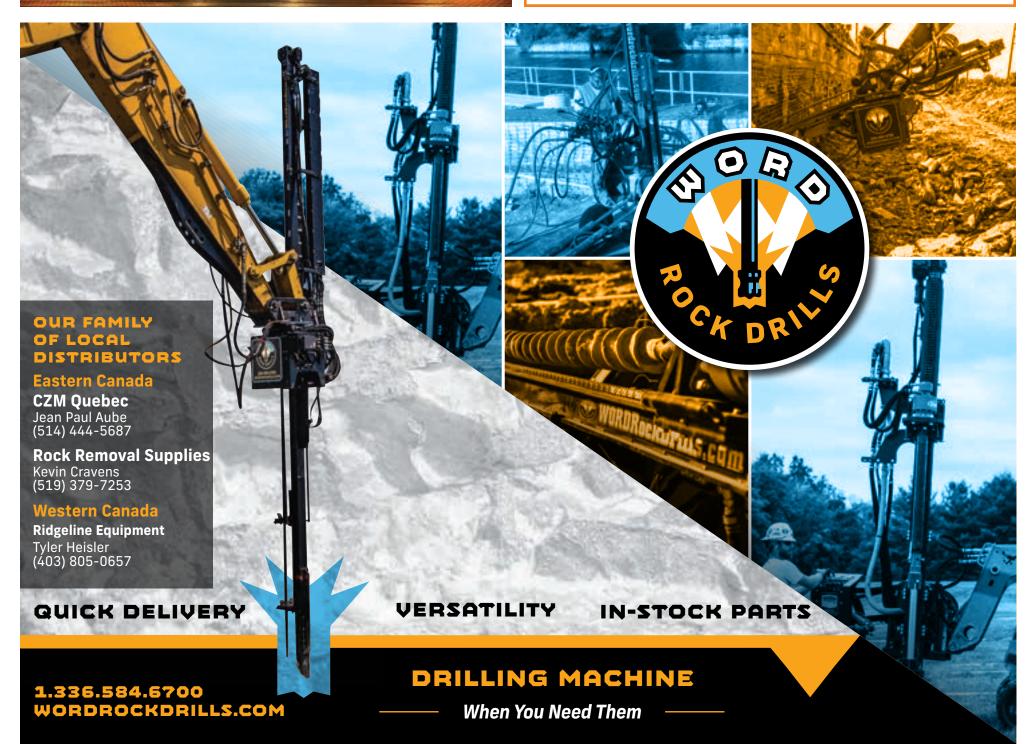


GRADALL **XL4300V**

Engine: Tier 4 Final Volvo Penta **HP @ RPM:** 173/2.200 Max Digging Depth: 21'3" **Boom Telescope:** 12'6" **Boom Tilt: Max Lift Capacity:** 12.540 lb **Operating Weight:** 43,560 lb

The Gradall XL4300V excavator is the industry's only on/off highway excavator that can work at the front, rear or either side of the undercarriage without the need for outriggers.

The Gradall boom design also creates a low working profile, enabling the machine to work under bridges, in tunnels and under overhead obstructions. A short tail swing allows the machine to work in tight spaces and along highways with minimal traffic interruption.





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2012 JOHN DEERE 650J GPS (1 of 2), 5,900 hours, stk# 05046



2014 KOMATSU D31PX22, 5,275 hours, stk# 05060



2012 JOHN DEERE 750J LT (1 of 2), 5,600 hours, stk# 05063



2015 KOMATSU D65EX-17 GPS (1 of 2) 3,700 hours, stk# 05065



2010 JOHN DEERE 750J LT, 8,867 hours, stk# 05068



2007 CAT 420E, 5,947 hours, stk# 06016



2017 CASE TR270 (1 of 7 from 2017-2020), 2,500 hrs, stk# 08012



2006 JOHN DEERE 330C LC, 8,516 hours, stk# 15031



2012 HITACHI ZX470LCS5 (1 of 7), 7,418 hours, stk# 15050



2012 HITACHI ZX350LC-5 w/thumb (1 of 3), w/thumb, 6,559 hours, stk# 15054



2017 LINK-BELT 245 X4, 5,908 hours, stk# 15074



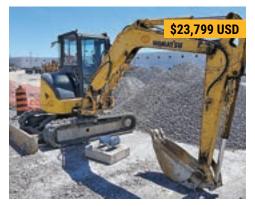
2012 LINK-BELT 470L X3, 7,247 hours, stk# 15065



2011 CAT 740B (1 of 2), 8,657 hours, stk# 25015



2014 CAT 725C (1 of 2), 7,206 hours, stk# 25027



2005 KOMATSU PC50MR-2, 5,242 hours, stk# 53010



2009 KOMATSU PC78US-6, 5,009 hours, stk# 53011



2011 JOHN DEERE 85D, 7,292 hours, stk# 53014



2012 JOHN DEERE 350GLC, 7,154 hours, stk# 15066



2012 HITACHI ZX200LC-3, 7,277 hours, stk# 15057



2013 HITACHI ZX225USLC-3, 6,461 hours, stk# 15058





New John Deere felling head boasts larger cut capacity than previous models

its newest forestry attachment offering, the FR27 disc saw felling head.

Now standard on the John Deere 953M and 959M feller buncher models, and available as an upgrade on the on the 853M, 859M and 903M feller bunchers, this felling head attachment has a larger cut capacity compared to previous felling head models.

According to John Deere, the new FR27 builds upon another solution aimed to increase productivity on the

"We are always looking for ways to enhance operator efficiency and machine capacity. By introducing a larger felling head solution to our lineup with the FR27, we the woods. are providing our customers with a larger, more durable attachment to help increase their bottom-line," said Jim O'Halloran, global product marketing manager, tracked feller bunchers and harvesters & disc saw felling heads, John Deere. "The newly designed FR27 enables loggers of all experience levels to

knowing their machines are built to endure larger timber and excel in a variety of forestry applications."

The FR27 disc saw felling head is designed to take on a variety of timber applications, from large single stem cutting to mid-sized accumulation, and boasts an all-new design and overall rebranding from previous John Deere felling head models.

In addition, this robust, the success of the FR24B as high rotation felling head features first-rate cut and accumulation capacity, offering better productivity compared to previous models. The FR27 features a cutting capacity of up to 27.2 in. and an accumulation capacity of up to 7.5 ft, improving capability in

In comparing the FR27 to previous John Deere felling head models—specifically the FR24B-the FR27 features an updated frame and wrist design, which includes a tall horn, long harvesting arms and continuous hose routings that promote easy machine clean-out. Also, the hardened saw housing wear tackle even the most ambi- plates are now standard and

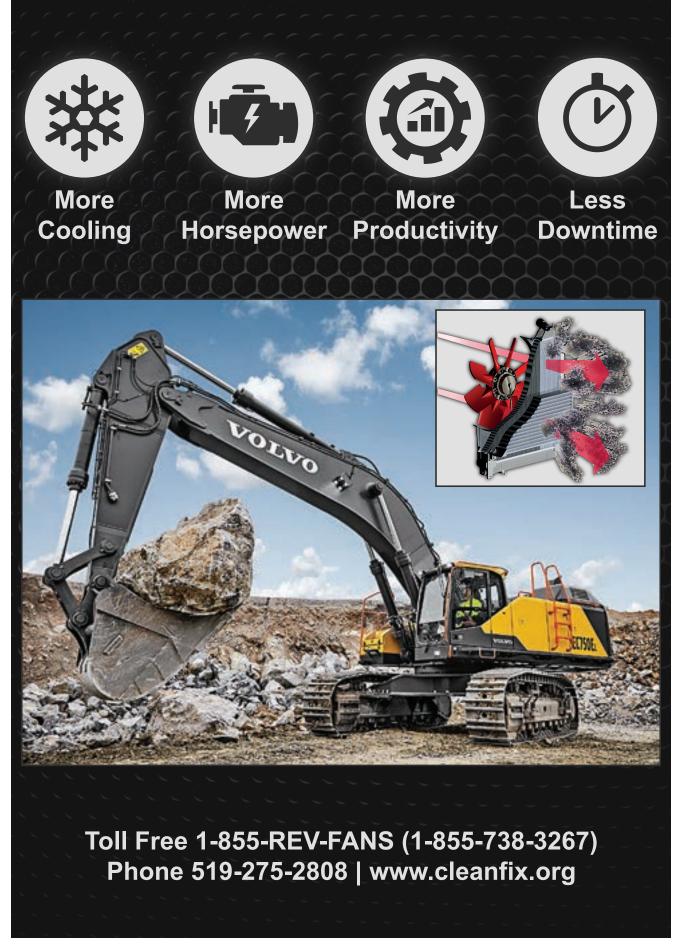
wear resistance.

Additionally, the FR27 of-

John Deere has announced tious jobs with confidence offer improved saw housing improved serviceability, with chip exhaust chute minimiz- exhaust chute also includes fers bolt-on saw housing for The incorporated large side and running. The side chip application.

three separate saw housing es build up and plugging, a cover that can be added sections with integrated skis. keeping your machine up or removed depending on











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JY Voghel expand Finlay territory to include Ontario



long standing dealer JY and sales of Finlay equipterritory to include Ontario.

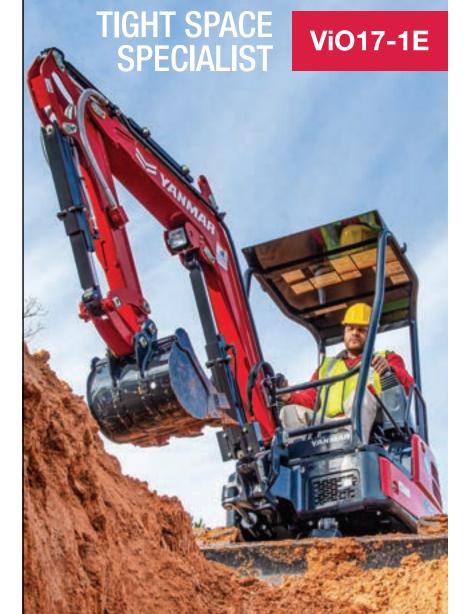
With over 25 years of experience in the aggregates, mining and recycling industries Voghel have represented 2010. Voghel will be increassupport to cover the new

allows us to serve customers in the quarrying, mining, sand and gravel, construction, demolition and recycling industries across Ontario

Voghel will be expanding its ment for customers in the mining and recycling industries," said Pascal Gosselin, VP, Business Development. "We can assure customers across Ontario of the highest Finlay in Quebec since March levels of service at all times, we stock the parts they need ing their staff and service and offer the full line of new equipment models for sale or rental. Our company culture "The territory expansion thrives on putting the needs of our customers and team members first. We're committed to bringing the very best in material processing equipment and solutions to the region and look forward to developing long-term relationships in the community".

"Voghel are a well-established Finlay dealer and have an outstanding reputation. As a company their standards manager, Finlay.

Finlay has announced that with parts, service, rental of quality and business integrity aligns well with those of Finlay. They consistently stock an average of 20 to 40 Finlay machines with a substantial forward order bank to maintain this machine park. With an impressive workshop with repair and preparation bays, Voghel pride themselves on the pace that their service department prepare sales and rental machines configured to the customer needs. They consistently exceed the industry requirement for fast delivery and commissioning of machines on site. Our customers will be in the hands of established experts who really know the market and the challenges that customers deal with daily in their operations." said Philip Berresford, regional sales







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Hilltip introduces new rotary broom attachments

Hilltip has introduced its SweepAway rotary brooms for use on pickups, tractors and other equipment.

Available in 59- to 86-inch widths, the attachments feature a 20-inch-diameter brush for high performance in a variety of applications.

The SweepAway rotary brooms mount on pickups using Hilltip's Quick Hitch mounting frame. They can also be used on tractors with the company's STR and VTR mounting frames. Other mounting frames are available for attaching to different vehicles, such as loaders or forklifts. The mounts allow the brooms to be angled up to 25 degrees for controlling the valve. ■

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direction of swept material. Furthermore, the brooms

require a hydraulic system with a minimum flow of 11 gallons per minute. If the vehicle does not meet the hydraulic system requirements, then a Hilltip Power Unit can be added.

Featuring a heavy-duty design, the power unit has a KOHLER engine that provides up to 12 gallons per minute of hydraulic flow to operate the SweepAway rotary brooms, as well as other machines.

A variety of other options and accessories are available for the SweepAway rotary brooms, including a deflector, a sprinkler kit with a 132-gallon tank, and an electrical oil-flow

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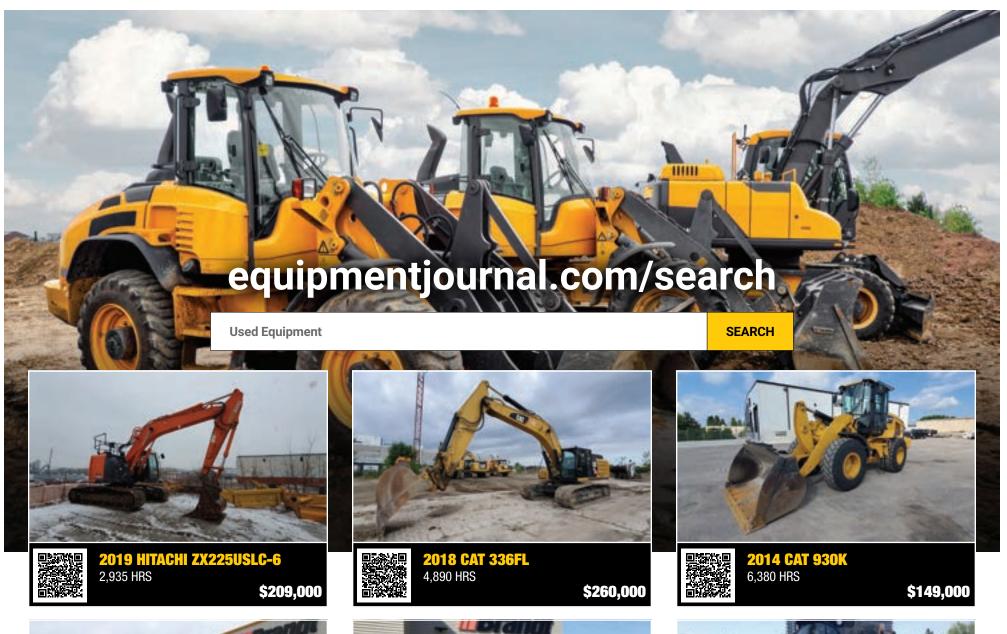
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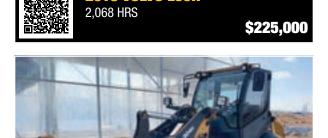




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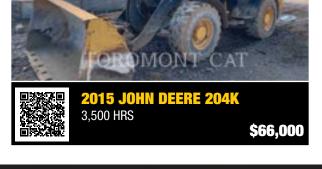


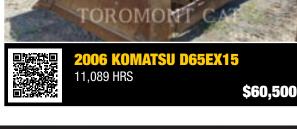






回溯记得到法







\$175,000



Cat announces new technology packages electric rope shovels

two new optional technol- chine's design and provides rope shovels.

According to the company, the new packages eliminate ging from health monitoring the need for one-off technology customization, offer faster technology installation reliability, improved operand provide seamless integration of future technologies into machine operation. Furthermore, they are designed to offer improved health and productivity data tracking that helps to reduce the number of unplanned machine outages and create a more predictable maintenance schedule.

standard technologies—ranto cycle segmentation—to ator efficiency and enhanced also provides seamless integration of Cat MineStar Solutions' comprehensive suite of operational technologies that help track, monitor and manage the shovel.

Building on the Integrated Technology Package, the Operator Assist Technology The Integrated Technol- Package provides machine

7495 and 7495 HF operation. ogy solutions for the Cat the foundation to support Without sacrificing produc-7495 and 7495 HF electric future technology expansion. tivity, this upgrade minimizes The new package features six machine self-collisions and safeguards against operator practices that cause damage. It allows less experienced support improved uptime operators to efficiently load trucks, while reducing the effort required to avoid poor cyber security. This upgrade digging practices that can impact machine availability and overall productivity.

Machine self-protection

The new Operator Assist Technology Package upgrade simplifies how the shovel is operated through machine self-protection. It

Caterpillar has announced Cat Electronics into the ma- enhancements that simplify the dipper, crawler, boom bumper and cable management systems.

> The technology's LiDAR vision system scans the front of the shovel and algorithms integrate with operator commands to provide the least intrusive avoidance path. If a collision is unavoidable, the system will arrest machine motion to prevent or mitigate the collision. It reduces unplanned downtime, extends component life and improves total cost of ownership.

The package features Enhanced Motion Conautomatically detects and generation. It also offers a can be taken.

the second generation of rotating undercarriage by alerting the operator when trol, encompassing all the the turning angle exceeds 20 improvements of the first degrees, so corrective action

> Other features within the new Operator Assist Technology Package include:

- Anti-swing in bank: prevents damaging side-loading forces on the dipper when the operator attempts to swing the dipper through the bank.
- Hoist stall prevention: monitors forces and optimizes crowd/retract commands to avoid stalling the dipper and forces on the hoist gear-
- Hoist rope slack prevention: automatically adjusts crowd and hoist references to maintain rope tension when slack is detected.
- Boom jack minimization: automatically adjusts the hoist and crowd to maintain proper rope tension and ultimately improve cycle times.
- Rope crowd impact prevention: measures the force on the crowd rope and automatically adjusts motor output to avoid shock loading.
- Rope crowd overspeed 2023.

prevention: eliminates unnecessary wear on the crowd brake by providing more braking power to avert overspeed situations.

Prepared for the future

By providing the foundation for support technology expansion and integration, the Integrated Technology Package helps to provide more robust and reliable reporting. New Cycle Segmentation establishes operating key performance indicators (KPIs) and identifies dwell time when idle. prevent detrimental It divides cycle time data into digging, swinging to the truck, dumping and swinging to the bank segments. This allows miners to track machine performance across different shifts and operators.

According to Cat, the optional Integrated Technology Package will be available in standard and premium subscription levels. New Cat 7495 and 7495 HF shovel purchases are able to be equipped with the Integrated Technology Package and Operator Assist Technology Package starting in 2023 and availability of the technology packages as field retrofit kits is scheduled to begin mid-





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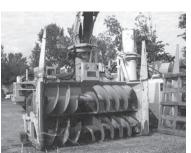
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Liebherr presents new LH 26 M Timber Litronic timber truck

Liebherr is introducing the LH flow rate, fast and dynamic Optimized undercarriage and 26 M Timber Litronic—a new working movements and timber truck that boasts an thus the highest handling operating weight of between performance are guaran-23,500 and 26,000 kg.

Performance, dimensions and maneuverability

The engine power of 125 kW provides the system with a high torque. This means that the machine can be accelerated quickly. In combination with the high pump

Thanks to its compact design, the machine is ideally suited for use especially in confined spaces. Due to the extremely small front and rear swing radius, the machine can be completely swiveled even in tight locations. The minimal contour of the right front in particular means that work can be carried out very close to the sorting string or pile, as this is always within the width of the undercarriage. This provides an excellent view of the working area, ensures additional safety and prevents collisions.

For high maneuverability, the LH 26 M Timber is equipped with all-wheel steering as standard. The all-wheel steering increases driving stability and thus improves directional stability. The automatic steering reversal, which is also standard, guarantees the correct steering direction at all times when driving forwards or backwards.

efficient trailer operation

The electric swing angle adjustment in the traction motor provides more torque, maximum acceleration and higher tractive effort. This ensures a constantly high driving performance even on slopes. The optimal adjustment of speed and flow rate ensures convincing fuel efficiency even at maximum speed.

For longer distances, the combination of timber tractor and trailer is the optimal choice. Thanks to the powerful drive and the robust axles, trailers weighing up to 60 tonnes can be towed. The new undercarriage concept with 2-point blade support significantly increases the handling performance in trailer operation. The 2-point blade support guarantees maximum stability as well as high payloads when loading and unloading the trailer over the entire swivel range. This allows more timber to be handled per loading cycle and thus increases productivity. The blade can additionally be used for clearing work and thus increases safety in the timber yard.



Tigercat's D7 control system optimizes tree processing to achieve best value

Tigercat 534 harvesting head, the Tigercat D7 control field proven hardware and The system offers powerful functionality, simplicity and intuitive operator navigation.

There are two types of bucking control available for D7. Priority-based bucking logic utilizes a list of operator-entered log specifications sizes to determine how best to process the tree. D7 Optimization level uses a value-based logic. Using multiple layers of matrices correlating price, demand and production limits to each log size under each tree species, the control system optimizes each processed tree to achieve the best value. These matrices are usually programmed by the timber buyer.

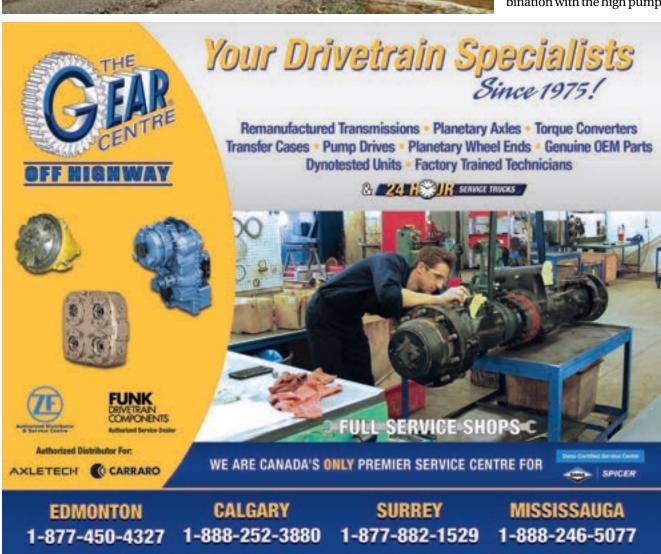
Reporting

Both Tigercat D7 Priority

Currently available for the and Optimization levels offer StanForD Classic, StanForD 2010, and PDF production system combines a solid and reporting based on contracts, operators, species, and bucking control system with product groups. The reports a Tigercat developed head provide total quantity and control and user interface. volume, as well as per species and product group quantities and volume. Reports can be viewed on screen, or exported for later analysis. D7 also sends production volume data to RemoteLog, Tigercat's optional telematics system.

GPS integration

D7 can be equipped with a GPS receiver and the GeoInfo software. This provides an active navigation application using the machine's current position on a georeferenced map. Work site maps can be viewed on the in-cab display screen, allowing the operator to easily view the site layout, track the movement of the machine, and view production information. Restricted areas can be marked with boundary alarms.



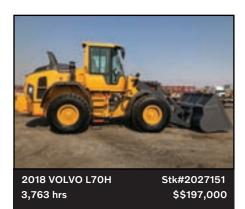
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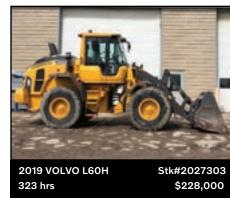






























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Nova Scotia's R&D Crane performs synchronized lift of major Toronto bridge

pleted work on the Four Lawrence River by barge. Signature Bridges contract

and Structures has com- of the bridge sent up the St.

The lift of the 22.3 m-wide, for Toronto's Port Lands 57.1 m-long Cherry Street project. The job wrapped up North Bridge was performed in style with the company by R&D Crane which—like successfully orchestrating a the fabricator—is a division to lift the structure from complex four-crane pick to of Cherubini Group. It was

Canada's Cherubini Bridges get the final 446.6 t segment completed using the four **Finding room in a tight spot** largest cranes in its fleet: a Manitowoc Model 16000 lattice-boom crawler, and Grove GMK6400, GMK5250L, and GMK5240 all-terrain models.

> The cranes combined its supports in the yard at Cherubini's Pleasant Street Fabrication Facility in Dartmouth, Nova Scotia, allowing a self-propelled modular transporter (SPMT) with transfer beams and a huge Cherubini-engineered turntable to take the load. The SPMT was then driven onto a barge moored alongside the site's dedicated harborside wharf to begin its journey to Toronto.

The need to bring together the four cranes was an engineering solution to help ensure the bridge was positioned as smoothly as possible at its final resting place, as Cherubini Group CEO, Darren Czech, with 44 t counterweight and explained.

"Loading the bridge sections onto the barge wasn't hitch, taking less than four the issue, as the transporters were able to pick the sections and drive straight on," he said. "But with this particular section, and also a second one, there were space restrictions which meant we couldn't just simply roll on and roll off the barge using the self-propelled transporters alone. Because of the this, we engineered a solution that supplied the sections to the jobsite on a turntable structure—our giant have a full fleet of Manitowoc 'Lazy Susan.' This allowed tugboats in Toronto to spin them minimizes the mechanical around on the barge in the and operational challenges a middle of the harbor, ideally positioning them to slot right So, we used the four-crane pick at our yard to make sure the section was accurately placed on the turntable ahead of shipping to Toronto."

For the lift, one crane was positioned at each corner of the bridge, and all were con-

their outrigger deployment, with the GMK6400 working with 95 t counterweight and 20 m of boom; the GMK5250L working with 70 t counterweight and 23.5 m of boom; and the GMK5240 working 23 m of boom.

"The lift went without a hours," said R&D's GM, Rob Blois. "Although the cranes were mobilized roughly a week prior to help with planning, setting up mats, and finalizing onsite details. The key was really the planning working out how to maintain equal weights during the lift and spreading the load to reduce ground-bearing pressure. But on the day the cranes worked very well together. We and Grove machines, which mixed fleet can cause."

The personnel also played into their final resting place. a key role in ensuring the job was performed safely and effectively, added Czech:

"The supervisor facilitating the lift, Nico Baldasso, had previously operated all the cranes himself, so he recognized and understood how each crane should perform. figured with main boom and And, of course, we always partial counterweight. The use the right operator for the 16000 had 36 m of boom with right crane. Pretty much every 134tofrear counterweight and bridge that's erected in this 27 t of carbody counterweight. province is done by us—we All three Groves maximized embrace the big and bulky partnership."

stuff that other people don't want. So multi-crane picks are not unusual to us or our operators. They're like a hockey team that's been playing together a long time; they can predict each other's moves so Nico can oversee the work and just let them get on with the job."

Final piece of the puzzle

The final key player in the project is local Manitowoc dealer Shawmut Equipment located in nearby Elmsdale, Nova Scotia—Cherubini's preferred partner ever since it started building its crane fleet. From its convenient location in nearby Halifax, Shawmut provides expeditious service that Czech described in glowing terms:

"It really is a team effort, and we value the intimate knowledge the Shawmut team has of these cranes and the relationships they build with our operators. One of Shawmut's many technicians, Michel Landry, is a great resource and has walked our operators through many issues. He does it so well, no one but the operator even knows there's been a snag. That expertise is phenomenal."

"And we can't do it without their sales rep, Dave Hawboldt or Joe Vergoni, the president—I can pick up the phone any time and ask them anything. It's a real family-like





JCB 131X

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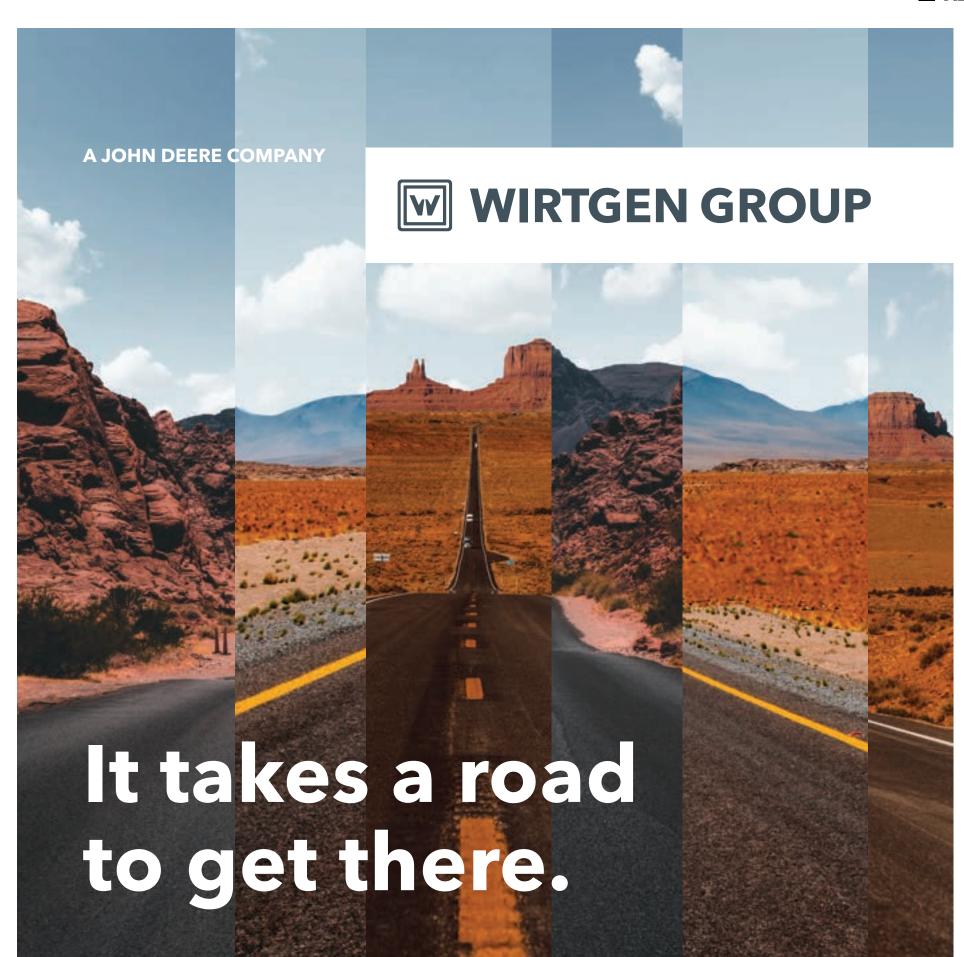
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CASE introduces seven new excavators to its E Series

operator experience in performance and control to deliver even greater productivity, operwhile driving down total cost of ownership over the life of the machine.

These new excavators also represent an and precision, greater engine power and responsiveness, extended service intervals and greater connectivity for streamlined fleet management and service. The new offering also includes one of the industry's most expansive offerings of OEM-fit 2D and 3D machine control systems to simplify the adoption and expansion of precision excavation solutions.

"CASE E Series excavators build on the control customizations and configurations to drive that improved operator experience," says Brad Stemper, head of construction equipment product management in North America for CASE. "The E Series is both highly engineered for performance and built on a platform proven to withstand the heavy work and harsh working environments excavators work in every day."

The new lineup replaces five key models in the CASE excavator lineup, while also introducing two all-new models: the CX190E and the CX365E SR. Dozer blade and long reach models are also available in select configurations, and certain D Series excavator models will remain in the CASE product offeringnext-generation versions of those machines will be introduced later.

"The CX190E is a 41,000-pound machine that fits a very important area of demand for contractors throughout North America, and the CX365E SR represents something that our partners have made clear they want—a

CASE Construction Equipment has intro- metric ton or larger class," says Stemper. "The duced seven new models of E Series size, power and performance of that machine excavators—including two in new size in a tighter footprint will transform the workclasses—focused on enhancing the total flow and productivity on jobsites with space restrictions."

"Between building out a more comprehenator satisfaction and operational efficiency sive product offering and delivering one of the broadest offerings of 2D and 3D OEM-fit machine control solutions, CASE E Series excavators are built to drive performance enhanced level of hydraulic performance and efficiency for excavation businesses of all shapes and sizes."

Control and confidence

Enhancing total operator control and experience is about the marriage of the operator environment and the overall performance of the machine—and that all comes together with the operator interface of the machine.

One of the most noticeable enhancements powerful, smooth and responsive controls in the cab of the new CASE E Series excavators for smooth and responsive hydraulics thanks that CASE is known for, while adding all-new is the 10-inch LCD display that provides even greater access and visibility to cameras, machine data and controls. This includes the ability to display rear- and sideview cameras at all times while still accessing machine data and controls, ensuring optimal visibility and jobsite awareness. This includes the popular optional CASE Max View[™] display for even greater visibility and safer operation that provides 270 degrees of visibility around the machine.

The new display allows for excellent control customization with five configurable buttons that can be set to each operator's most used functions - including, but not limited to fuel consumption, machine information, auxiliary hydraulics and emissions controls. The new Hydraulic Flow Control Balance for the hydraulic system, as well as the new attachment controls, are also controlled through this display.

CASE has also expanded on the operator comfort and ergonomics that were a hallmark of the D Series excavators with a new suspended operator station that locks the seat and minimum swing radius excavator in that 3.5 console together so that, no matter the size of



in terms of orientation to the armrests and the controls. Both the console and the armrest can now be further adjusted to meet operator preference.

Next-level engine and hydraulic power

CASE excavators have always been known to the CASE Intelligent Hydraulic System, but the addition of new FPT Industrial engines throughout the product line, along with new enhancements to the hydraulic systems, provide even greater power and performance.

The FPT Industrial engines offer greater displacement, horsepower and torque than previous models within the CASE lineup, driving even more power and responsiveness for the operator. Four new work modes (SP for Super Power, P for Power, E for Eco and L for Lifting) are available to be set in a range of up to 10 throttle settings allowing operators to dial in performance to their work, and the new Eco mode drives lower fuel consumption by as much as 18 percent compared to previous CASE excavators.

The addition of FPT Industrial engines to the CASE lineup brings with it the manufacturer's legacy of innovative emissions solutions that are both maintenance free and drive greater efficiency for the owner/operator. New CASE E Series excavators feature an innovative combination of diesel oxidation catalyst (DOC), selective catalytic reduction (SCR)

the operator, they have the same experience and particulate matter catalyst technologies that further provide greater fuel efficiency, systems reliability and no lifetime after-treatment replacement or mechanical service over time. The system features 13 patents that ensure effective emissions compliance and performance in all working environments.

> New hydraulic priority capabilities further allow the operator to set machine performance and responsiveness to their liking. CASE calls this Hydraulic Flow Control Balance, and it allows the operator to set arm in, boom up and swinging flow to their liking. Now the excavator will be even more responsive and efficient directly as it relates to the preferences of the operator.

> Attachment use has also been dialed in even further with the ability to adjust hydraulic flows based on specific attachment types through the new display, and to set maximum overflow for each attachment for optimal attachment performance.

Improving uptime, reducing costs

In addition to lifetime service and maintenance advancements—such as extending service intervals on engine oil and fuel filters—CASE has brought these machines even further into the world of collaborative fleet management with the introduction of new connectivity and telematics capabilities across the product line.

Continued on B4

Takeuchi introduces next-gen TB335R short tail swing excavator

Takeuchi has added the next-gen TB335R short tail swing compact excavator to its TB300 Series. This excavator features a sophisticated interior and exterior design as well as enhanced functions that provide greater performance and peace of mind.

"The TB335R's short tail swing design results in a rear overhang of only 3.1 inches (7.87 cm) over the tracks, making it ideal for working in tight or confined spaces," said David Caldwell, national product manager for Takeuchi. "It also provides outstanding stability rarely found in a short tail swing machine, along with smooth, intuitive controls that help operators tackle tough jobs emission-compliant engine of advanced features, the with ease."

8,310 lbs (3,770 kgs), a max- TB335R offers two workimum bucket breakout force ing modes—Standard and a 4.3-inch, high-definition,



force of 4,290 lbs (19.1 kN). The excavator is powered by an EPA Tier 4/ EU Stage V delivering 24.4 hp (18.2 kW)

or fuel savings as desired.

Offering a wide range TB335R's spacious cab The cab model TB335R and a maximum torque of includes a 7.0-inch touchhas an operating weight of 70.6 ft-lbs (95.8 Nm). The screen, multi-function color display. Canopy models offer of 9,127 lbs (40.6 kN) and ECO—allowing operators to multi-function display.

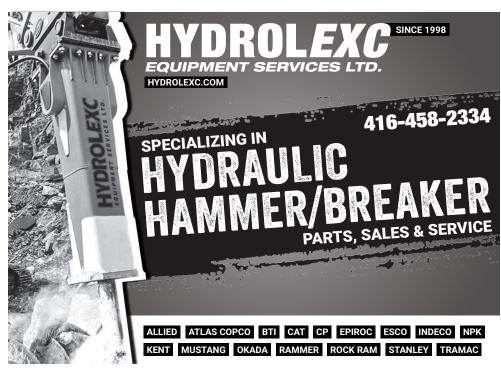
hand, choosing more power conditioner, heat/defrost, windshield wiper and washer, skylight w/ sunshade and AM/FM radio with Bluetooth technology. Both cab and canopy models have low-efcontrols, a deluxe high-back suspension seat with head rest and retractable seat belt to keep operators comfortable and productive.

The Takeuchi Fleet being operated.

a maximum arm digging match the mode to the task at Cab models also feature air Management (TFM) telematics system is standard on the TB335R during the warranty period. With TFM, owners and operators can remotely connect to their Takeuchi track loaders and excavators. fort, pilot-operated joystick TFM delivers alerts and malocation, utilization, performance and maintenance status, as well as insights into how and where equipment is

"Takeuchi is committed to providing the North American market with equipment that offers unmatched reliability and operator comfort as well as the latest technology," Caldwell said. "The TB335R chine information such as is a machine that exemplifies that commitment by delivering unmatched performance, excellent serviceability and great







Continued from B3 - CASE Introduces...

CASE accomplishes this pairs the operator's phone new line, each new CASE E the new SiteManager App (iOS and Android). This app

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through the new SiteCon- or device to the machine to nect Module along with enable remote analysis. Certified CASE technicians then diagnose the health of each connected machine through various parameter readings and fault codes—and the technician determines whether the issue can be addressed remotely (such as software) or if it requires a trip to the machine.

SiteConnect Module to ownership. further improve telematics data and performance, and Precision excavation the collaboration between equipment owner, dealer and its OEM-fit 2D, 3D and manufacturer. This enhanced connectivity allows the machine owner to share—at their discretion—real-time machine information with the dealer and the CASE Uptime Center in Racine, Wis.

The SiteConnect Module also improves the volume, flow and integration of data to the CASE SiteWatch telematics platform for real-time monitoring, management of maintenance and service intervals, examination of equipment utilization and overall machine record-keeping.

And to show that CASE fully stands behind this faster. ■

Series excavator comes standard with CASE ProCare: a three-year CASE SiteWatch™ telematics subscription, a three-year/3,000-hour

full-machine factory warranty and a three-year/2,000hour planned maintenance contract. ProCare allows business owners to invest clearing codes or updating in new equipment while making owning and operating costs predictable for the CASE also leverages the first three years of lease or

CASE has also expanded semi-automatic machine control solutions to an even broader range of models. This ensures that the optimal combination of machine and solution is installed and tested by CASE certified precision field specialists. It also simplifies the acquisition process and allows for the technology to be grouped in with the purchase of the machine—combining the financing or lease approval, rate and payment in a single package. It also gets the owner and operator of that machine up and running with machine control



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LOOKING BACK AT EXCAVATION



By HCEA Canada

In the early 1900s, two major excavation projects were started in the Niagara Peninsula: the 4th version of the Welland Canal and the Hydro Electric Power Commission (HEPC) generating station. Large excavators were required due to the massive amount of material on both sites. To get the flow of water required at the Niagara Falls generating station, over 13 km of open canals had to be excavated through overburden and rock. In addition, tunnels were constructed to provide the proper water

large steam powered shovels in this era were Bucyrus-Erie and the Marion Steam Shovel Company. These two companies had positioned themselves as the most prominent manufacturers of large stripping shovels that were utilized in the excavation of the open cuts. Innovations during this period included Ward-Leonard along with electric power pany in 1997. making steam power a thing of the past.



The Marion Model 300 Event coming in June 2023. flow to the generator tur- steam shovel pictured here was rail mounted, had a web site: www.hceacanada. The two main suppliers of 3-cubic-meter capacity org. bucket and weighed over 185 tonnes. Marion went stored pieces of vintage on to making large walking construction equipment draglines, large cable shov- in action be sure to attend els and a versatile lineup of the Historical Construction mid-sized cable machines Equipment Association that could be converted from (HCEA Canada) events: shovel front to back hoe, crane, dragline or clam for tion' County Museum near use on municipal projects. Barrie, held in June and the The rival company, Bucyrus 'Last Blast' in October. Both International Ltd, acquired events are held at Simcoe electric operator controls Marion Power Shovel Com- County Museum. HCEA

Canada's Wheels & Tracks ty Museum. ■

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and excellence. That is number one to us and we instill that in our whole team. Our attention is on the detail and quality of workmanship," stated Stefano Galluzzo, principal.

When asked why they chose Bobcat® machines, Johnny Liscio, partner, replied "Service is #1 that we receive from Stuart Johnson and Bobcat of Toronto, and we love Bobcat machines. They are strong and very powerful. I have been around machines for a very long time, and I've tried them all. Bobcat machines are very reliable. They are easy to service for parts. Simply, I love the machines all around. We use the Bobcat machines for every application of our work. We use them for grading, excavating, digging pools and great for ditching. We really like the thumb and swivel bucket on our new Bobcat E88 compact excavator. We have six Bobcat machines. E45, E88 & 2 x E20 compact excavators and 2x T595 compact track loaders. We are thinking about purchasing another bigger Bobcat soon as well."

Stefano and Johnny said Stuart Johnson, sales specialist for Bobcat of Toronto had first called on them as a cold call eight years ago. "If it wasn't for Stuart, we wouldn't have bought so many. It's because of the trust and the service he provides, he makes it easy, and we have a great business working relationship. He takes really good care of us," stated Stefano. Johnny added, "it's all about the relationship. When I call Bobcat of Toronto, they know who we are, I am not a number, and they take care of us right away. That's so important. We wouldn't hesitate to recommend Stuart Johnson and Bobcat of Toronto (Scarborough) for your next machine purchase.

Thanks Stefano and Johnny.



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John Deere continues P-tier rollout, launches large loaders in US & Canada

John Deere has launched its our customers with a line new lineup of large wheel loaders as part of its 'Performance Tiering Strategy.'

Now available in the US and Canada, the 744 P-tier, new 904 P-tier wheel loaders have been designed to offer advanced productivity features, increased job-site reliability, optimal operator comfort and enhanced serviceability to help improve ficiency. machine uptime.

are working at the face or loading trucks, John Deere customers can be confident that the P-tier machines will provide exceptional performance all day - even in the most rugged applications," marketing manager, John Deere. "Building upon the improvements introduced on the L-series loaders in 2019, the P-tier models incorporate even more technology advancements, providing uptime.

industry."

feature reliable components like durable axles and high-performing transmis-

To improve machine per- performance. "Whether the machines formance while heading into piles, all P-tier loaders acity, heavy-duty axles include a standard lockup with standard axle cooling torque converter that adds filtration deliver durability additional torque during in difficult conditions comoperation and increases shift pared to previous models.

said Luke Gribble, solutions and 824 P-tier models fea- function programmable ture ground-level servicing, including a remote engine operator comfort, while the oil dipstick and improved material-handling buckets electrical and hydraulic routing, improving serviceability and curved side cutters make and, ultimately, increasing for intuitive operation.

of dependable and strong cab of these new loaders, givwheel loaders to meet the ing the operator more space Deere's Advanced Vision Sysdemands of the aggregates and as well as enhanced visibility. Additional features Detection System, which the According to John Deere, that look to improve operator company designed to im-824 P-tier, 844 P-tier and the the 744 P-tier, 824 P-tier, comfort and performance and 844 P-tier wheel loaders include adjustable seats with heat and ventilation and an upgraded HVAC system.

> With the base models of all sion capabilities, which help of John Deere's P-tier wheel to boost overall machine ef- loaders come a variety of features aimed to increase

> > For example, high-cap-

Also, the electrohydraulic In addition, the 744 P-tier (EH) controls—with multibuttons—offer a high level of with integrated spill guards

All P-tier Wheel Loader

nology options such as John tem and Advanced Obstacle prove visibility and increase situational awareness.

Furthermore, the new

John Deere redesigned the models also include tech- higher-resolution digital the same dedicated monitor. support from dealers.

As with all of the wheel cameras, dedicated display loaders that John Deere has and escalating audible alerts released under its Performcan inform operators when ance Tiering Strategy, JDLink obstacles are in the path of connectivity is offered as a their machine. This feature standard feature on these also overlays a projected models, enabling machine vehicle reversible path within communications and remote



CM Labs adds Trimble GPS to dozer & grader simulators

CM Labs Simulations, developer of Vortex training simulators, today expanded its integration with the **Trimble Earthworks Grade** Control Platform on two additional simulators: the Dozer and Motor Grader Simulator.

"Our simulators allow technologies and workflows safely, with a higher level of competency, before using real equipment," says Lisa Barbieri, VP of Product at CM Labs. "We offer 'future-proofed' training to prepare workers as the work site modernizes. Simulation provides training organizations access to ensuring their curriculum meets the needs of a changing market."

Trimble Earthworks software works in parallel with and runs on a tablet that tractors cost-effectively."



operators to learn new connects to the simulator. Using the simulator, visual aids are overlaid onto the existing ground along with cut/fill information, slope data, and other customizable reference points to provide the user with a better understanding of the work that needs to be done.

"We see great value in the curriculum CM Labs offers these technologies, such as for Trimble's Earthworks Trimble Earthworks, while machine control", said Cameron Clark, Earthmoving Industry Director at Trimble. "With the ongoing labor shortages, simulation training provides a unique CM Labs' patented software opportunity to train con-

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Caterpillar to display electric excavator, loader prototypes at bauma 2022

To support customers Caterpillar will display four porting them into the future during the energy transition electric machine prototypes, to a lower-carbon future, including battery proto-

types, at bauma 2022 Oct. 24-30 in Munich, Germany.

Caterpillar is focused on

as we power our next generation of machines." The Caterpillar-designed batteries in these machines will also be available to

power other industrial ap-

plications. Built on proven

Caterpillar technology, the

lithium-ion battery range

features a modular design

that offers flexible config-

urations across multiple

applications. The batteries

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to industry and customer

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(418) 877-5557 1711 rte de L'aeroport #4, L'ancienne Lorette, Que. G2G 2P4 delivering purpose-built solutions to help customers achieve their sustainability goals by geography, by jobsite and specific customer need. One of many solutions, the battery electric machine prototypes include the 301.9 mini excavator, 320 medium excavator, 950 GC medium wheel loader and 906 compact wheel loader. The machines are powered by Caterpillar battery prototypes and include an onboard AC charger. The an offboard DC fast charging "Caterpillar is well pos-

itioned to help customers reach their sustainability goals, including lowering emissions on the jobsite," said Construction Industries Group President Tony Fassino. "It's important we meet customers on their sustainability journey today with a variety of solutions including machines that run on renewable fuels or technology that increases fuel expected to be the first comefficiency, as well as sup-

reuse at the end of life. "Our electrified products company also plans to offer leverage our deep system integration experience and are designed to meet the performance expectations that customers have come to expect from Caterpillar," said Joe Creed, Energy & Transportation Group President. "We're focused on helping our customers achieve the optimal product and jobsite energy lifecycle, allowing them to maximize value and minimize their total cost of operation."

> The 301.9 and 906 are mercially available models.







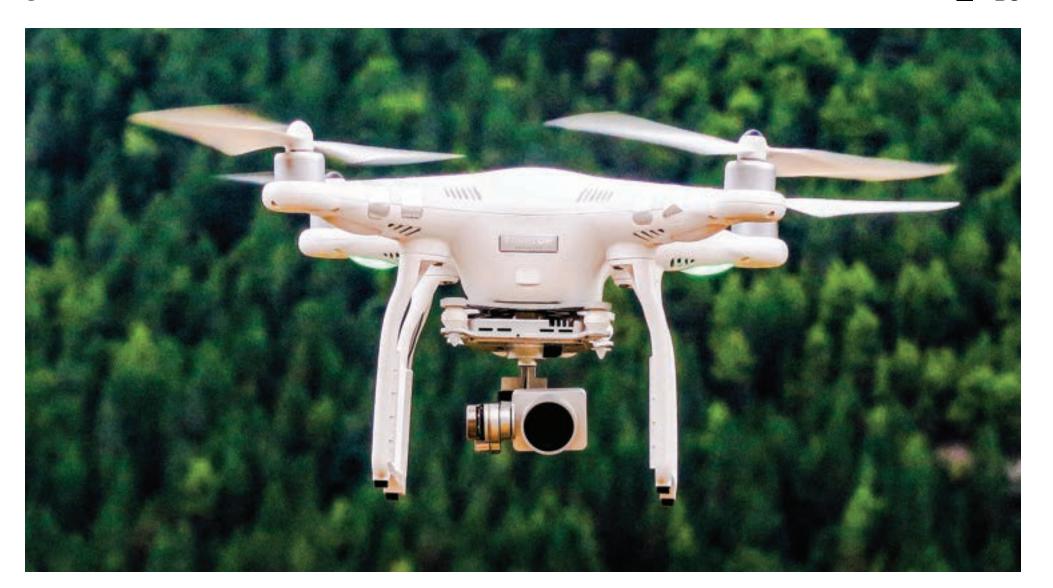
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Drones are Benefitting Earthmoving Operations

By: CONEXPO-CON/AGG

Drones—the aerial eye of the jobsite have become a very versatile tool for fits, increasing efficiency, productivity, and accuracy on jobsites. In addition, drones help reduce unplanned costs and rework throughout a project by providing there are two types of contractors. a steady stream of jobsite progress data.

of Operations and Co-Owner of Quanfor construction projects of any scale. earthmoving, to learn about using drones."

"Drones are another tool contractors can put in their toolbox to make more figure out how many yards of earth still collection procedures. to be moved and where that dirt must go.

knowledge of a project and your ability to manage it properly."

When it comes to drones, Pieper says

"One group I call drone curious. They As drone technology evolves, the greater think drones are interesting and they the return of investment in employing need to be learning about them," Pieper them, points out Zach Pieper, Director explains. "The second group are those contractors that already have drones and tum Land Design, an industry leader in feel they are not utilizing them as well as managing and preparing 3D data required they could be. Or they bought a drone for a single purpose, which it is serving well, "That is why is it important for those in and they want to get more use out of the the construction industry, especially in information collected. Or they want to get ideas on how to better use their drones on jobsites."

The How to Utilize Drones in Your Earthefficient and better decisions," Pieper moving Business education session at says. "There are many situations where CONEXPO-CON/AGG will cover the higha contractor might need to keep track of level basics of drones, including types how much earth is being moved, compare of drones, applications, the kind of data the current site to the planned site, and you can get out of drones, and basic data

"The session applies to nearly any size

Drones can be a very cost-effective way contractor," points out Pieper. "It will be an information-dense way to learn how you ogy. Everything in the education session 'Drones can also provide a very rich can use drones to make better decisions will be information that any contractor earthmoving operations. Among the bene-layer of data that can be added to your with your contracting company and on can take back to their company or their each jobsite.

"It will be focused on applied technoljobsite and put it to work." ■





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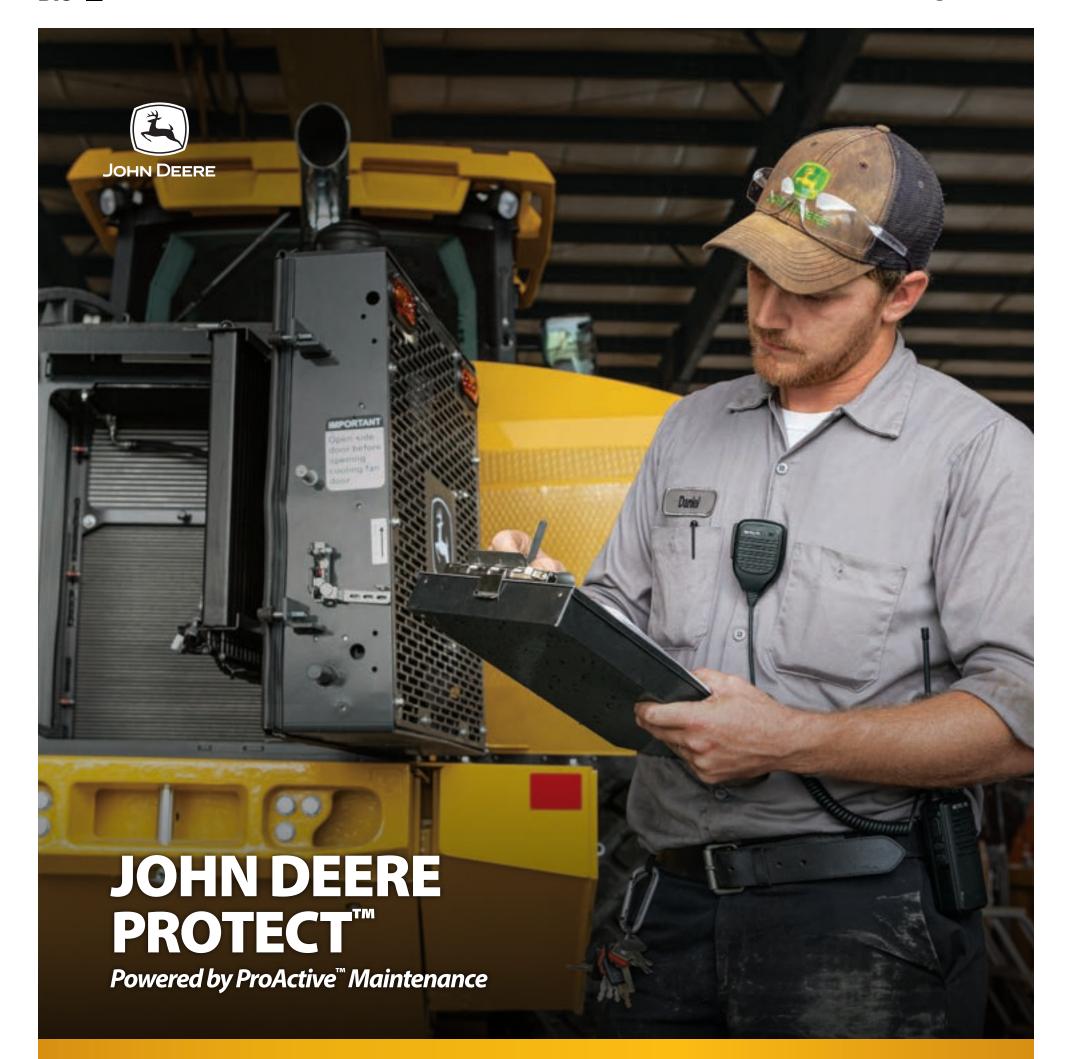
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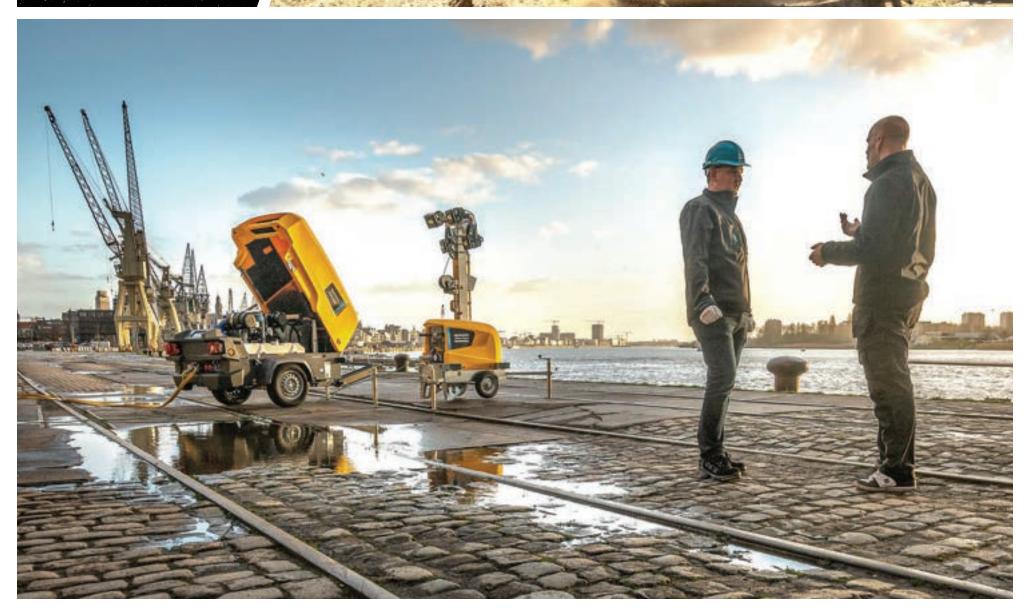
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LIGHTEQUIPMENT



10 things you need to know about compressor pressure

by Atlas Copco

From regulations to treatments, there's plenty to consider when trying to understand your pressure With our patented technolorequirements.

1. Finding the 'sweet spot'

Compressors must provide the right amount of pressure—or force—needed to complete the required process. Not too little, or too much. Too little pres- 4. Raising the bar sure means pneumatic tools costs.

2. Unique conditions

Every project is different, and not every application requires the same level of pressure. Geothermal projects, for example, require deep boreholes to be drilled into the earth, which can 5. Going with the flow only be achieved by using compressors with a pressure output of 35 bar. Abrasive blasting projects, on the other hand, may only require 10 bar of pressure.

3. Setting the PACE

Those requiring var-

a medium compressor fitted as inextricably linked. with PACE, or large compressor with Air Expert. **6. Boosting your efforts** No problem.

won't work, whereas too there is heightened consum-tions—even in the harshest **9. Preserving quality** much pressure can dam- er demand for compressors and most demanding conage the equipment, waste that prioritise speed and ditions. energy, and raise operating efficiency. This demand can be met using high pres- 7. **VSD** is **key** sure compressors, such as the DrillAir—especially (VSD) compressors are a designed to maximise efficiency by drilling faster than for air varies, and allow for ever before, and helping continuous flow rate reguto save valuable time and lation. VSD compressors

For sufficient pressure, you need consistent flow. A large air compressor, for more consistent discharge example, takes the hammer pressure for all the comdownwards by applying a pressed air applications downward pressure, while throughout your facility. the flow keeps it rotating. For optimal performance, the goal should be to supied pressure levels for ply an application with the updated, or repaired pres-

different aspects of a pro- proper air flow at the correct sure containing systems ject can benefit from using pressure, and treat the pair are first put through a leak

For projects that need gies, you can adjust pressure pressure above 35 bar, while the compressor auto-boosters are available. matically regulates flow. Atlas Copco compressors outlet and flow capacity tive. In the drilling industry, for a wide range of applica-

Variable Speed Drive smart choice when demand can operate at very low delivery pressures while still maintaining the air system's 10. A tailored outlook required minimum working pressure, and also deliver

8. Tried and tested

At Atlas Copco all new,

test, and then a strength test. The latter puts the compressor at 110% of the system's maximum operating capacity, where it is kept under pressure in order to monitor integrity and safe-Operating handheld tools, come in oil-free or nitrogen ty. All components are also then tackling a shotcrete variations, and can reach manufactured in line with application an hour later? anywhere from 69 bar to a the strict industry standard whopping 345. They have of pressure regulation—the extensive pressure inlet/ European Pressure Direc-

A holistic approach is needed to maintain pressure quality, as different components can negatively affect performance. Filters, dryers, and the compressor's piping and valves all need to be considered and maintained appropriately in order to keep pressure working in tip-top shape.

Ultimately, a systematic approach should be taken to select a compressor in line with the needs of the application. When the role of pressure in a process is clearly defined, finding the system that will be the most profitable and efficient becomes simple.





Raimondi Cranes unveils new brand and vision

Raimondi Cranes has global construction audi-

present a new visual identity for Raimondi Cranes, one that builds on its long heritage within the global rebrand echoes recent inconstruction industry. For the novations and encapsulates the 'R' icon, while simplifying past two years we have been the company's embraced working on reshaping our vision with heavy investments responsive global leader Raimondi's signature shade into a new manufacturing in scalable heavy lifting of red has been replaced facility, and by allocating substantial resources to our R&D department," said Eng. Diego Borgna, CEO, Raimondi Cranes.

unveiled a new corporate vested into two core areas identity and vision for the of business: a new production facility implementing ingin decades. The renewed innovative techniques and "We are delighted to the development of 14 new dynamic, and contemporary. flattops optimized according to customer feedback.

> vision of being the most solutions," continued Eng. Borgna.

The company has in- 16 months, represents a milestone for Raimondi as it is the company's first full rebrandlook and feel is confident,

The new logo pays homage to Raimondi's legacy by "The strategic decision to placing focus on one of its strongest design elements, and modernizing it to signify efficiency and innovation. with a monochrome schema, conveying the company's The overhaul of the com- modernized approach. pany's visual identity, a Touches of the heritage red process that occurred over will still be implemented on

core of its business—symbolpresent can coexist in growth.

"Retaining Raimondi's

Raimondi's products—the heritage and values was a top priority. The new branding ic of the idea that past and reflects our evolving positioning and growing market ambitions with the aim of raising expectations. We will unveil the brand at bauma

new markets together with a series of new products, services, and solutions," Eng. Borgna concluded.

Raimondi plans to officially use it to drive expansion into 2022 in Munich, Germany.







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Generac enters the portable battery market

has announced the introproducts and the Company's entrance into the portable battery market. Joining its renowned line of backup and portable power products, the Generac GB1000 and GB2000 Portable Power Stations provide the advantages of clean, emission-free AC or DC power output at the push of a button.

With its ergonomic hanand lightweight enclosure, the Portable Power Station is built for power to be taken 1600 running watts of clean indoors or outdoors. The GB1000 (1086Wh capacity) and GB2000 (2106Wh capacity) models can power a wide range of electronics, such as phones, refrigerators, sump pumps, laptops and power tools. The units provide convenient power access with integrated AC and 12V DC outlets, USB ports and a 15W wireless charging pad. Both models also feature a 4.7 inch multi-color display that shows key data including charge level, run-time and current output.

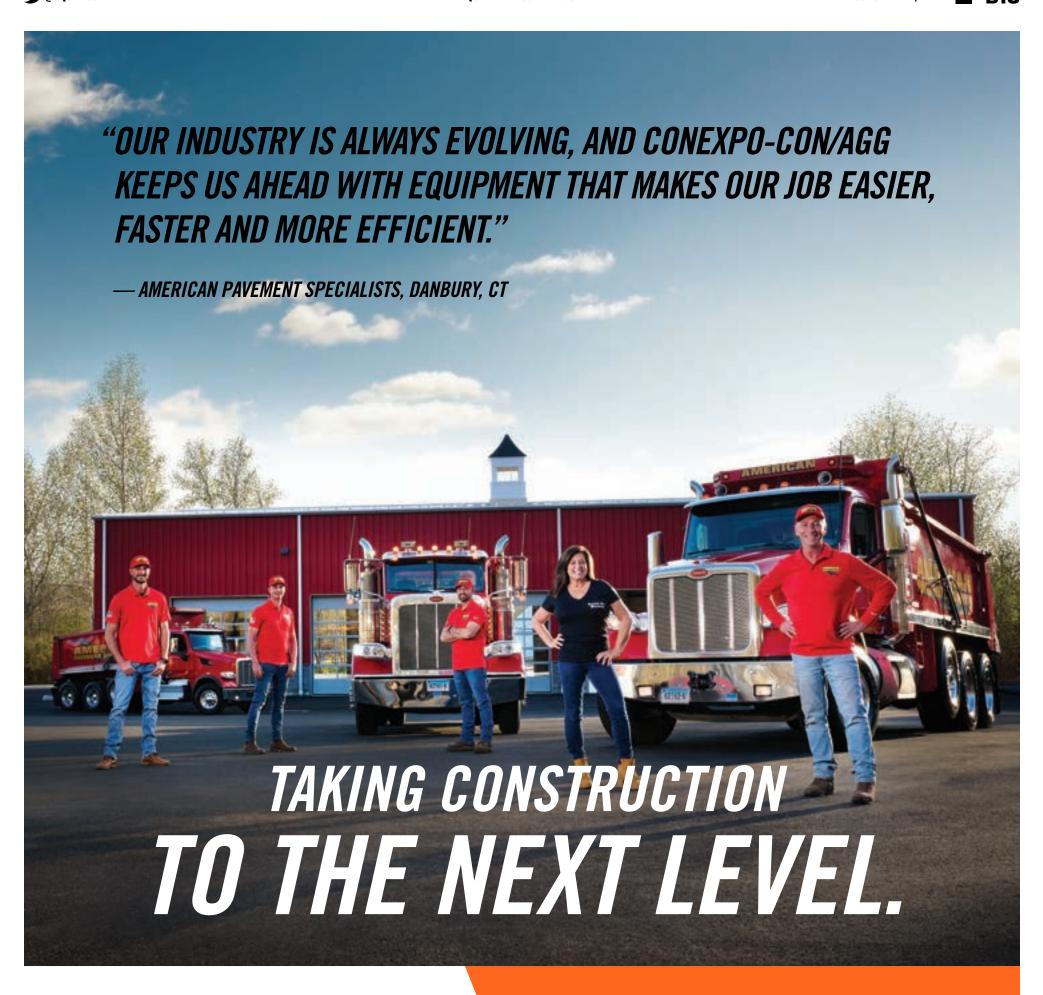
"The all-new Generac GB1000 and GB2000 Portable Power Stations are the ultim-

Generac Power Systems, Inc ate answer for emission-free, portable power that can go duction of its new Generac virtually anywhere without Portable Power Station restrictions," said Kyle Raabe, president of Consumer Power for Generac. "This is a product that's been designed from the ground up to deliver highpower output and versatile, fast-charging technology with a long-lasting battery. At Generac, we take our role as the leader in energy technology solutions seriously, and we are proud to offer the freedom and flexibility that comes with dle and compact, durable clean, high-capacity portable

> In addition to producing power output, the Generac GB1000 and GB2000 Portable Power Stations offer versatile recharging options, including the ability to support input from wall outlets, solar, car or generator. Both models boast fast recharging, with the GB1000 going from a 0 to 80 percent charge level in as little as 2.1 hours from a wall outlet.

> Furthermore, the Generac GB1000 and GB2000 Portable Power Stations have the ability to support multiple sources of combined charging inputs that can result in even faster recharge times.

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Five Reasons Equipment Distributors Should Attend the 2023 AED Summit in Chicago

equipment distributors across North America attend the AED Summit for three days of networking, year, Associated Equipment Distributors (AED) continues to bring together equipment distributors at Summit along with manuindustry and service providers that offer a wide variety of services for distributors. This dynamic combina-

Each year, the leading tion of equipment-focused enterprises makes the AED Summit a one-of-a-kind, industry-leading event.

Throughout the three days education, and industry of AED Summit, attendees leadership. Now in its 104th will gain crucial insights into today's most pressing issues in the industry that will guide their success for the rest of the year. Attendees will also partake in an optifacturers that equip the malenvironment to network with peers, connect with numerable, but just five of suppliers, and learn ways these reasons include: to improve their businesses today and into the future.

take place January 10th to 12th at the Hyatt Regency Chicago located in the heart of downtown Chicago. With its long history, the AED Summit is the symbolic kick-off for each business year within the equipment distribution industry. There is no question that attendees will start the year strong after attending. The reasons to attend are in-

Industry Specific Education

With over 40 breakout education sessions that have been curated and developed by AED, attendees will learn about industry trends, tips, and gain insight though several tracks including Leadership, Management, Product Support, Technology, Rental, and Sales. Session topics in each track cross a variety of industries represented by equipment distributors including Agriculture, Construction, Material Handling, Cranes, Municipal, and more. The breadth of topics covered ensures that all members of your team will benefit from industry. attending.

Hospitality/Meeting Room

One of the most unique aspects of AED Summit is the hospitality/meeting room suites. These suites are an exclusive feature of the event. During Summit, distributors can meet one-on-one with executives from leading manufacturers and service providers to discuss their business in a private discussion. Planning for the year, planning for a change, and discussing the year ahead are all on the table for attendees in these private sessions. You can meet with your existing suppliers and providers and/ or meet with new potential suppliers and providers to make the most of your valuable time. With the benefits of a hospitality suite, attendees can get a lot done all in one place and at one event.

The 2023 AED Summit will **CONference Dealer Expo** (CONDEX)

As the only expo strictly dedicated to the equipment distributor, CONDEX brings together over 150 manufacturers and services providers exhibiting their latest products for distribution and services for improving dealership operations. Meeting with suppliers in CONDEX is a great way to see what's new for the distribution business and connect with a plethora of manufacturers that are looking for distribution partners.

Networking Events

Networking events throughout Summit offer a great opportunity to reconnect with industry colleagues and make new connections for your business. With several receptions and networking events included in the conference registration, these social gatherings offer a great opportunity for attendees to build and continue the life-long connections that are the foundation of the equipment distribution

Thought Provoking and Insightful Keynote Speakers

AED Summit's keynote speakers are always a high point for attendees as all attendees walk away learning something new. These actionable insights are invaluable for their own business and personal lives. The 2023 keynote speaker lineup includes:

- Dirk Beveridge, founder of Unlead WD - "Re-Imagining Leadership in a Post Pandemic World"
- Ann Fandozzi, CEO of Ritchie Bros. - "Transformation Driven by
- Digital Marketplaces" Colonel Greg Gadson, US Army - "Pride, Poise, & Team"
- And the series is capped off with our keynote dinner with Former Secretary of State, Michael Pompeo.









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Generac and EODev to bring large-scale hydrogen generators to North America

facturer of zero-emis- port to handle acquisition, for carbon-free power genpower generators, have of the GEH2 units. announced a formal distri-American market.

The distribution agreement signifies the continued growth and availability of solutions. This collabora-Powering A Smarter World strategic focus and equally expands EODev's presence in the North American market with its cutting-edge, one-of-a-kind hydrogen fuel cell power generators.

Generac has placed an initial order for the GEH2 generators, some of which United States. Generac's

Generac Power Systems sion plans in North America, Jérémie Lagarrigue, CEO of and a lithium iron phosand EODev, a French as Generac can provide EODev. "Thanks to EODev's phate battery, reducing developer and manu- end-clients relevant sup- GEH2, tomorrow's solutions noise emissions and prosion hydrogen fuel cell installation, and servicing eration in North America

bution agreement. Generac Power is proud to part- with you their first projects will offer EODev's GEH2—a ner with EODev to offer in this promising market." large-scale, zero-emissions GEH2 hydrogen fuel cell hydrogen fuel cell power power generators to North GEH2, the ally of the energy generator—to the North America," said Erik Wilde, transition on land executive vice president of Industrial - Americas at Generac. "Harnessing the power of hydrogen allows us alternative energy solutions to provide solutions that are for the industrial power engineered for the planet, sector, which addresses a while delivering value to pioneering market in the customers committed to transition to low-carbon investments in carbon-free and emission-free power solutions. Hydrogen fuel cell power generators can play tion emphasizes Generac's an important component in the expanding alternative energy space, and the GEH2 platform demonstrates our commitment to providing cutting-edge products that improve energy resiliency, optimize energy efficiency, and lead in environmental stewardship."

"We are delighted to have have already arrived in the Generac further the EODev promise in the North Amerability to manage in-house ican market. Beyond their service and maintenance, vast expertise, we share a rental solutions and client common ambition to accelsupport teams across the erate the energy transition country make it an ideal through our clean and inpartner for EODev's expan- novative solutions," said

are already available today. "Generac Industrial We look forward to sharing

viding an instant start. This combination of power enables the GEH2 to deliver up to 110 kVA of power. Developed to be easy to use, the GEH2 is equipped with event-driven electrical outlets, standardized frequency The GEH2 uses a fuel cell as remote monitoring and developed with the aim of zero-emissions zones.

Designed to provide virtually any energy ecosystem Designed to meet environwith instantaneous power, mental challenges without the GEH2 offers a silent sacrificing efficiency, it is solution without emissions suitable for virtually all of CO2, HC, NOx, or fine sites and sectors of activity, particles. The GEH2 emits whether prospective cusonly warm water and filtered air.

and voltage levels, as well approach, the GEH2 was a confined site or regulated

easily integrating into all industries and environments. tomers are seeking energy autonomy, desiring a back-With its plug-and-play up solution, or operating in



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Power Joe introduces Power Joe propane-powered portable generator

generator, Power Joe.

pany, the new model offers frozen pipes, spoiled food on the motor with up to air flow with an enhanced to power devices with pane-Powered Portable a cleaner way to power up during power outages and

and medicine.

Snow has launched its new can save consumers up to POWER3X technology, tools in the 24V iON+ cord-traditional generators. propane-powered portable \$30,000 in property damage Power START, boasts a less tool ecosystem. resulting from occurances 24-volt iON+ lithium-ion According to the com- like flooded basements, battery that instantly turns COOL ensures superior Generator is equipped

4100 watts of power. Also, fan design for a strong-Power Joe's PRO the battery powers over 100 er-running motor than including two standard

The Power Joe Pro-Furthermore, Power- pane-Powered Portable breakers. multiple outlet options, 120-volt outlets, USB-A and -C ports for electronics, a campsites. Other features display and control panel, the push of a button."

a low-oil sensor with automatic shut-off dual circuit

"The Power Joe Pro-Generator is a true innovation," said Paul Riley, Jr., Chief Operating Officer of Snow Joe. "It can run twist-lock receptacle and an lamps, fridges, microwaves, RV outlet for campers and heaters, the AC, and keep phones, tablets TVs on durinclude an onboard LCD ing a power outage at just





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Bobcat expands into light compaction equipment industry with nine machines

To meet the compaction demands of numerous industries and jobsite requirements, Bobcat has launched nine light compaction machines in North America.

"By adding light compaction machines to our current product offering, customers have a greater array of equipment options to help them accomplish more," said Mike Ballweber, president, Bobcat Company North America. "We know our customers work hard each and every day, and these machines give them even more versatility to do their best work."

A solution for every compaction jobsite

The full range of Bobcat light compaction products includes rammers, forward plates compactors, reversible plates compactors and trench rollers. The light compaction line can be used in a variety of settings and is designed to meet compaction requirements on nearly all jobsites. From maneuverability to power, each of the machines possesses different strengths.

"Bobcat's light compaction equipment was created for jobs in small spaces, requiring efficient compaction with an emphasis on operator comfort," said Travis Kidder, senior product specialist for Bobcat Company. "Whatever your compaction needs are, look no further; Bobcat's light compaction range provides the necessary capabilities to meet your needs."

Rammers

Bobcat's new rammers-models R60P and R68P—are high-performance machines that are user-friendly and engineered to last. Highly efficient in confined work areas, Bobcat rammers reach places other equipment can't. Directing all compaction power onto any target surface while maintaining optimal balance, Bobcat rammers are agile, precise and built to last. Trench roller

Forward plate compactors

The three Bobcat forward plate compactors—models FP10.33, FP15.40, and FP15.50)—are equipped with forward movement capabilities for great compaction results and less operator fatigue. While working with Bobcat's forward plate compactors, operators will get quality performance with low fuel consumption.

Reversible plate compactors

for compacting granular material such as enable operators to experience quick directional changes with minimal effort in tight spaces.







Lastly, the new Bobcat TR75 trench roller is operated by remote control and delivers high-compaction performance on a variety of soil types. The TR75 trench roller can take on a variety of jobsites with its oscillating articulated joint that allows the trench roller's drums to maintain contact on uneven ground.

Each machine within this line possesses different strengths, from maneuverability to power.

"Bobcat's light compaction equipment The reversible plate compactors (models was created for jobs in small spaces, requir-RP22.40, RP30.50 and RP49.20D) are built ing efficient compaction with an emphasis on operator comfort," said Travis Kidsand, gravel and asphalt. These machines der, senior product specialist for Bobcat Company. "Whatever your compaction needs are, look no further; Bobcat's light compaction range provides the necessary capabilities to meet your needs."



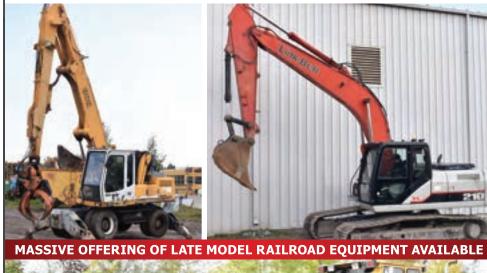
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NEW HIRES & APPOINTMENTS IN THE HEAVY EQUIPMENT INDUSTRY

Rotochopper welcomes Chad Angeli

of Chad Angeli as vice president of customer neapolis, New York City, Toronto, Shanghai

In this newly created executive role, Chad service functions, strengthening the Roto-CEO, he will develop and implement stratdevelopment and profitability.

Chad brings 18 years of business experience at Tennant Company, a leading designer and manufacturer of cleaning and his MBA at the University of Wisequipment with annual revenue exceeding consin-Milwaukee. In college, he played \$1.1 billion. He began his career as a sales basketball on a scholarship, serving as a specialist in Indiana. From there, he was four-year team captain and receiving the forward to engaging with customers and promoted into roles with progressively more UW-Milwaukee Student-Athlete of the Year working together to grow the business, he

and Sydney.

"I am excited to welcome Chad to the will lead the sales, marketing and customer Rotochopper leadership team," said Tosh Brinkerhoff, CEO of Rotochopper. "His global chopper brand and aligning customer experience and general management backtouchpoints. As a strategic partner to the ground will provide an important perspective as we grow the company, and his frequent egies that lead to continued growth, market interaction with customers throughout his our mission to keep our customers happy."

Chad earned both his bachelor's degree

Rotochopper has announced the addition manager and sales leadership roles in Min-the world, Chad volunteered with organizations such as Heart to Heart China and New Wales South Food Bank.

> Chad and his wife Leah have a four-yearold daughter, Scarlett. Chad enjoys traveling and feels fortunate to have visited over 20 countries so far. He also enjoys cheering on his favorite sports teams, especially his home state's Green Bay Packers.

"I am thrilled and grateful to be joining a career will be invaluable as we strengthen team that has such a strong reputation for taking care of their people and their customers," said Chad, reflecting on the new opportunity. "I've enjoyed learning about the company's tradition of excellence, and I am excited to be part of the future." Looking responsibility, eventually holding general award in 1999. As his career took him around added, "I can't wait to get started!"



Chad Angeli

Kohler elects current president and CEO David Kohler as chair

Executive Officer David Kohler the Board, following the passing of Executive Chairman Herbert V. Kohler.

David will chair the Board of **Directors and Executive Commit**tee, in addition to his role as Chief Executive Officer which will include full scope responsibility for the three business groups of Kohler Co. (Kitchen & Bath, Power, Hospitality) and all enterprise functions.

David has been with Kohler Co. for over 31 years and was elected to the role of President and Chief Executive Officer in 2015, having previously served as President and Chief Operating Officer since ples—to ensure company stability, 2009. He is the fourth generation of Kohler family leadership since the company's inception in 1873, and company over the last 149 years.

our company forward well into to the additional role of Chair of the future. David has proven to be an inspiring and forward-thinking leader for our associates around the world, including in times of uncertainty throughout the global financial crisis, the recent COVID-19 pandemic and a variety of other challenges," the company stated. "David understands the importance of developing a strong culture of dedicated associates passionate about innovating, inspiring and delighting our customers. He draws upon the legacy of past Dayton Hudson Corporation. Since Kohler leaders and our company's established framework—grounded in our mission and guiding princisustained growth and long-term success."

"I learned so much from my only the ninth person to lead the father, including a tireless strong work ethic, leading with candor "The Board is confident in and humility and always driving to the Board of Directors of the fol- at Kohler Co.; and Rachel Kohler, family relationships as being essen-David's deep experience, strong innovate. He believed that you must lowing organizations: Kohler Co., board member, entrepreneur and tial for the next 150," David said.

The Kohler Board of Directors leadership and passion for bold have passion for whatever you do Old Course Ltd, Interface Inc., has elected President and Chief innovation to continue driving in life if you want to be successful. Working alongside him for decades showcased the impact of embracing an entrepreneurial spirit, not being afraid to fail and always striving for accuracy and consistency. He left an indelible mark on me personally and professionally," David said of his father Herbert V. Kohler, Jr.

> David Kohler started at Kohler Co. working in every manufacturing division on the front lines. He rejoined Kohler as Director - Fixtures Marketing in 1993 after working at then, he has served in progressive roles at Kohler including Vice President Sales, Sector President - K&B Americas, Group President - K&B Group, Executive Vice President, President and Chief Operating Officer and President and Chief **Executive Officer.**

Interceramic and the Green Bay Packers. He received his bachelor's degree in political science from Duke University and his master's degree in management from the Kellogg School of Management at Northwestern University. David is also an Alumnus of the Voyageur Outward Bound School in Ely, Minnesota, and is a past Chairman of the Young Presidents' Organization, Intercontinental Chapter. David currently serves on the Board of Kohler Foundation and the Advisory Board of the Duke University Fuqua Center David Kohler on Leadership and Ethics (COLE).

years, have four children and live - principal shareholders of Kohler, in Kohler, Wisconsin. David credits Nina as being foundational to his advancement and working colhis success in life and business. laboratively to steward the future In addition, David credits his two of the company over their working sisters—Laura Kohler, board mem- lives. "As the fourth generation of ber and Senior Vice President of a successful 150-year-old private David also currently serves on HR, Stewardship & Sustainability company, we've prioritized strong



David and Nina, his wife of 25 advisor to early-stage companies as being instrumental in supporting



Deere names president, Lifecycle Solutions, Customer Support & Supply Management

announced the appointment of Justin R. Rose to President, Lifecycle Solutions, Customer Support & Supply Management, will be based in Austin, Texas, at one of Deere's ceeds Marc A. Howze, who will become Senior served as a senior partner Advisor, Office of the Chair-

for leading the company's worldwide aftermarket, cus-

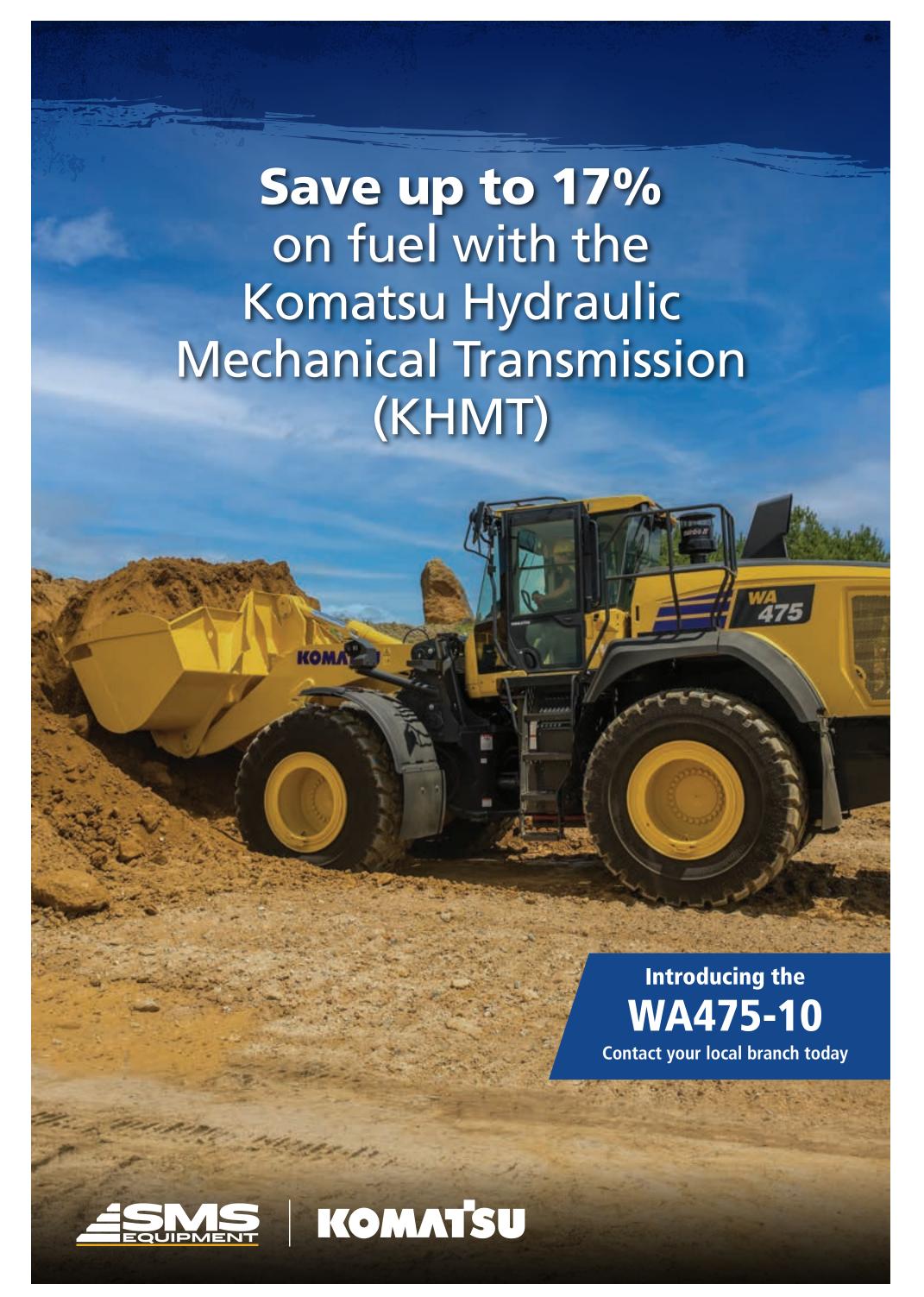
effective October 31. He Leap Ambitions announced team. Rose started his cain early 2022.

and managing director and worked with Deere on a ser-Rose will be responsible ies of high-profile projects, the company's Smart Indus- instrumental role helping

see the recurring-revenue ican industrial-goods to serve in this capacity," and customer-success goals practice and was a memoutlined in the company's ber of its global leadership reer with BCG in 2002 and Rose is joining Deere worked in offices around newest offices. Rose suc- from Boston Consulting the world, including Chi-Group (BCG), where he cago, Thailand, Japan, and Mexico.

"Justin's exceptional background, broad global perspective, and prior work including development of with Deere - including his

Deere & Company has tomer support, and supply trial strategy and operating develop our new strategy management and logistics model. Most recently, he and operating model groups. He also will over- headed BCG's North Amer- make him highly qualified said John C. May, Chairman and Chief Executive Officer of Deere & Company. "His outstanding record working with clients across the globe and deep industry insights will provide vital leadership toward the achievement of our ambitious business goals and efforts to provide best-in-class customer service and support." ■







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10F5VOLVO A25G(2018-2022) 23.5R25TIRES, TAILGATES, 2017 HITACHI ZX210LC-6 1,965 HOURS, Q/C, CHOICE OF 2018 VOLVO A45G 4,301 HOURS, TAILGATE, HEATED BOX, 2015 CAT 321D 4,600 HOURS, AUX. HYD., DUAL CONTROL, BUCKETS, ALSO AVAILABLE WITH HAMMER OR PLATE HUB RENTAL FLEET SINCE NEW, WARRANTY REMAINING. Q/C, TIER 3..







2006 CAT CS-563E 5,250 HOURS, OROPS, 84" SMOOTH



2018 CAT 950 GC 1,370 HOURS, FUSION COUPLER, 4.5YD GP BUCKET......\$**299,000**



2014 CAT 930K 6380 HOURS, 3RD VALVE, FUSION COUPLER, 3YD GP BKT, 20.5R25 TIRES......**\$149,000**



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