# EQUIPMENT JOURNAL

**ISSUE** 

FOCUS: EXCAVATION/EARTHMOVING & ROADBUILDING























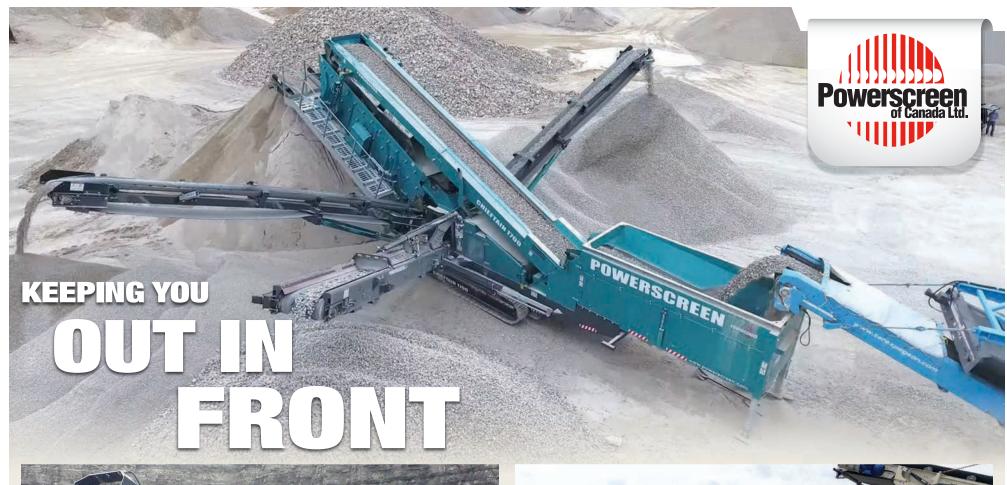








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The Powerscreen® Premiertrak 400X range of portable jaw crushers are designed for customer operators in quarrying, demolition, recycling and mining applications. Hydraulic crusher setting adjustment for total control of product size and crusher overload protection to prevent damage by uncrushable objects.



The Cedarapids® CRS620H screen plant features the popular  $6' \times 20'$  TSV6203 screen, along with a flex shaft screen drive and rollaway blending chutes, make this a leader in the screen plant market. The wide conveyor belts handle peak load conditions easily. Features include tool-less slope adjustment ( $0^{\circ}$  to  $7.5^{\circ}$ ), 48" underscreen conveyor, 30'' cross conveyors.



The Cobra 230R is a versatile and easy to use Small Impact Crusher that can operate in the most demanding of applications such as Reinforced Concrete, Recycled Asphalt, Construction and Demolition waste.

Features include a 3.4yd³ hopper capacity, 34" crusher inlet, 8' x 4' single desk mesh screen, 281hp.



Triple shaft technololgy ensures that the 16' x 5' screen box is highly efficient while maintaining exceptional throughput productivity. The extreme screening acceleration offers the Warrior 2100 improved capabilities over its class rivals, especially in sticky scalping applications, screening and recycling applications. Features include a 16'x5' 2 deck screenbox, 9.2yd³ rigid one piece hopper, CAT C4.4 125hp.

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Manitou launches new compact telehandler



**MB** Crusher unveils two screening buckets





John Deere acquires three factories



# EQUIPMENT

**A5** 

**NATIONAL HEAVY EQUIPMENT NEWS. DELIVERED. SINCE 1966** 



March 28, 2022

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# **KEEPING THE NOISE DOWN AT THE TORONTO ZOO**

Looking for a quieter alternative to traditional equipment, the Toronto Zoo and Strongco test Volvo's electric equipment in animal habitats.



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**B3** 

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**ROADBUILDING** 

### **ADVERTISED INDEX** MARCH 28/2022

Advance Construction Equipment	B16
Alden Rents	
AllStar Auctions	A1
Alltrade Equipment Corp	. A14,B15
Am Cast Canada Industries Inc	
Amaco Construction Equipment Inc	
AMI Attachments	
Atlantic Heavy Equipment Show	
Battlefield Equipment Rentals	
Bob Mark New Holland	A20
Bobcat Dealers	
BPT Components & Parts	
Brandt Equipment Solutions	
Brandt Used Equipment	
Bull Powertrain	
CG Equipment	
Cleanfix	
ConExpo	
Converterman	
Cooper Equipment Rentals	
Creighton Rock Drill Limited	
Crushco	
D/S Manufacturing	
Delta Power Equipment	
DeWitt Equipment	A15
Don Cordingley Gradall	B21
Doosan	
Dynapac	
Eqpme Equipment Sales & Service Limited	
Flo Components	
Gear Equipment	
Greyrock Equipment	
Harding Equipment Inc	
High Reach Inc	
Hitachi	
Hub Equipment	
HydrolexcIndustrial Trailers	
Jade Equipment	
JBL Truck & Equipment Appraisal	
JCB Dealers	
JT Equipment	
Kent Farm	
Kubota	
Lakeshore Equipment SolutionsLiebherr	
Link-Belt Excavators	
Lubecore	
Lund Appraisal Svc	
Magnum Attachments	
Marcel Equipment Limited	
McDowell B Equipment Ltd.	
Metric Group Moore JCB	
Morgan's Diesel Truck Parts	
NLS Products	
North Toronto Auction	A1
Nye Manufacturing Ltd	
Olofsfors/Hultdins	
Pine Ridge Lisco Edwards	
Powerscreen of Canada	
Robert Green Equipment	
Rokbak	
Shaw Bros. Limited	
Strongco Corporation	
Sutton Stromart	
Tarten Equipment Limited	
The St. Goorge Co.	
The St. George Co Tim McDowell Equipment	
Top Lift Enterprises	۵۱ط
Toromont CAT	A13.B1
Tramac	
Trans-Quebec Diesel	
Tri-City Equipment	B7
Wacker Neuson	
Wirtgen Yanmar Dealers	
iaiiilai Dealeis	A1/
AUCTIONS	
AllStar Auctions	A1

North Toronto Auction.....

TCL Asset Group ...... A20

### **LETTER FROM THE EDITOR**

## Looking at the forecast and getting excited about the season

With Spring arriving and the industry in some of Canada's intention of stimulating job ground thawing, it would seem that the traditional construction season has arrived in Canada.

After two seasons of periodical and partial shutdowns of the workforce due to COVID-19, it would appear that we may be getting back to a more typical transition back into the working season.

Contractors are firing up machines and prepping them for the work ahead. Labourers are buying new

ready to be back.

Adding to this enthusiasm, Construction and Maintenance Looking Forward report, a forecast of workforce supply and demand by trade, outlines some fairly optimistic projections for the future of the construction

provinces.

Ontario's construction employment is expected to peaking in 2023.

by nearly 2,400 workers and Saskatchewan's by 1,500.

Also, BuildForce lists the current nationwide construction employment total as 1,415,200 workers, which is an increase of just over 6%.

As an industry that is very sensitive to economic cycles, Most of the industry is increase in job creation in construction is refreshing.

BuildForce Canada's annual the present, we are seeing rising costs in all aspects of the industry.

Late in 2020, Canada's government announced the \$10 cited to attend the National billion, three year, Growth Heavy Equipment Show for Plan that focused on infrastructure initiatives, with the

and economic growth in the country.

Canada is seeing an rise by nearly 10,700 workers, increasing demand of infrastructure projects. So, Alberta's is expected to rise hopefully the government's stimulus package as well as the seeming normalization of our day-to-day working lives, as the COVID-19 crisis settles, can work together to prove BuildForce's projections for Ontario, Alberta and Saskatchewan correct and while offering a boost boots, eager to break them in. any metric that denotes an to the provinces with lower projections.

> All that is to say, the nice However, looking more in weather and has gotten me excited about the upcoming construction season and the overall future of the industry.

> > Also, it has gotten me exthe first time.

I am more than excited to itely upon us. ■



Max Carrington // Editor editor@equipmentjournal.com

meet with the representatives from many of Canada's pillars in the industry.

Today, I received a message from a hometown friend—the person who first put me into an excavator.

He said, "Just fired up the 8-ton. Starting the first job of the season on Monday."

The season is most defin-



## **CUSTOM CONCRETE MOLDS MANUFACTURING FABRICATION**





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# **Manitou launches ultra-compact ULM/GCT** telehandler

Manitou Group has launched its new ultra-compact ULM/GCT telehandler model. The launch confirms the group's aim to offer its users ever more profitable and easy-to-use solutions.

### A model unique to the market

To meet the needs of users who want a versatile machine that is easy to use and easy to transport between two worksites or farms, Manitou Group has designed a very lightweight model with a transportable weight of less PTAC of 3,500 kg.

This model was designed entirely by the design office at the Laillé (Ille-et-Vilaine) "super compact" telehandlers for the group.

a width of 1.49 m and a for optimal demisting. height of 1.92 m. Also, this ultra-compact model comes comfort, the group has also in two versions—with a lifting capacity of 1.25 t and 1.5 t parking brake and offers and a lifting height of 4.30 m.

### **Comfort and safety**

The new ULM/GCT telehandler is designed to make handling operations even safer and more enjoyable. Access to the cab is easy with no added step.

has an unobstructed 360° view to work safely.

Camille Rouvrais, product manager, says: "We worked with our design office to find provides even more safety and comfort. We replaced the roof grille with a transparent, shock-resistant polycarbonperfectly with the requirements of the FOPS standard".

ments also apply to the and 2,900 kg depending on operator's lateral view. The the configuration, the ULM/ side view is clear because of GCT can be transported on the position of the hydraulic a trailer. hoses inside the boom and



the engine cover positioned place from the third quarlow down to the right of the ter of 2022 in Europe, North operator.

The user can also make than 3 tons, which can be use of driver assistance, with loaded onto a trailer with a a screen on the dashboard displaying all the information needed for driving in the form of pop-ups.

The joystick is positioned site, dedicated to producing as standard on a floating armrest for more flexibility of use, and two vents are The handler features situated on the windshield

> For prolonged driving introduced an automatic three steering modes: Twowheel steering for traveling at high speeds; four-wheel steering for maneuvering in tight spaces; and crab mode for lateral maneuvers.

### **Technical characteristics**

The ULM/GCT is distinct-Inside the cab, the operator ive for its small height but has a very large ground clearance of 29 cm, enabling it to move across difficult terrain without any problem.

Equipped with a 35 hp an innovative solution that engine, it has a maximum hydraulic flow of 48 L/min. Also, the truck is equipped with a flow sharing distributor, enabling several ate window, which complies hydraulic movements to be carried out at the same time.

With a transportable The visibility improve- weight of between 2,550 kg

The first deliveries will take

America and Australia.







### 2x 2022 HKD BLUE V-FLOW 400-GT TRAILER W/GENERATOR **DUST SUPPRESSION**

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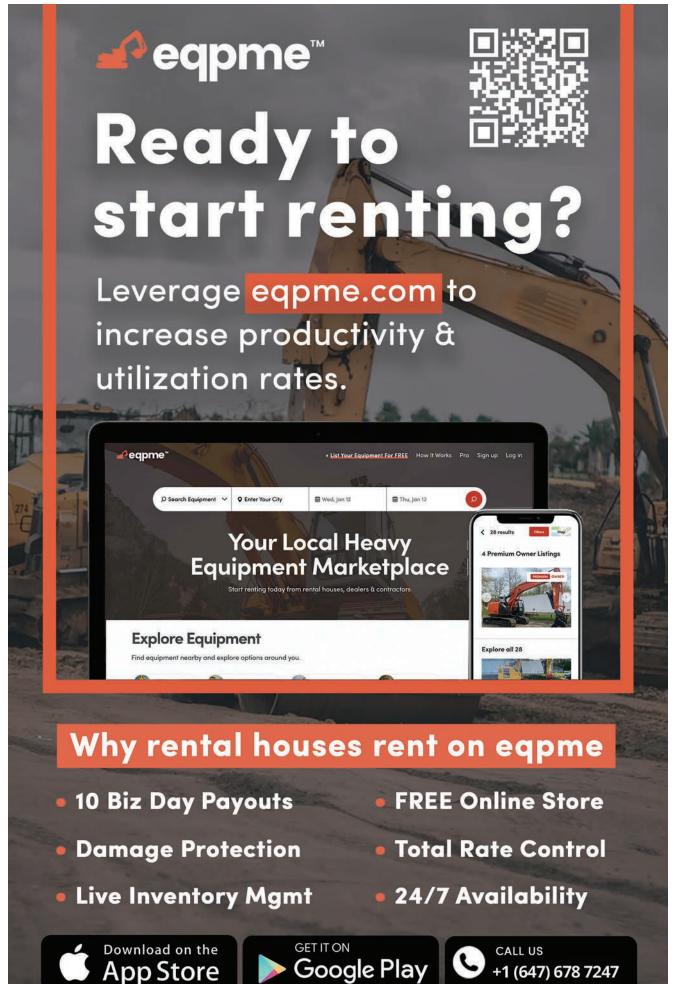


• Specs include: 25 HP fan, 15 HP pump (stainless steel), galvanized steel dual axle trailer, user defined variable water flow (10-60 GPM) & programmable & auto oscillation (330 deg.)

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**CAT 730 (2013) - 11,600 Hours** 750/65R25 Wide Tires, Rear Camera, Tailgate is available, Inspected, Serviced, All Needed Repairs Completed.



**CAT 972M (2019) - 3,285 Hours**High Lift, Dealer Maintained, L-5 Tires, NEW 6.75
CYD GP Bucket, Coupler is Available, CAT Payload
Monitoring, CAT Auto Grease System.



**VOLVO A30F (2012) - 9,250 Hours** 23.5R25 Tires, Tail-gate, Straight Truck, Arriving soon.



CAT 988H (2006) - 11,490 Hours Coming In Soon. Will be Inspected & All Needed Servicing & Repairs Completed.



**CAT 730C (2014) - 10,365 Hours** 750/65R25 Wide Tires, Auto Greaser, Tailgate Available, Heated body available Inspected, Serviced, All Needed Repairs Completed.



**CAT 980M (2017) - 10,950 Hours**Aggregate Arrangement, Choice of Buckets,
Auto Grease, Payload Monitoring.
All Servicing & Repairs Completed.



CAT D8T LGP (2017)
3685 Hours - Idle Hours: 1608, Auto Reverse
Cooling Fan, 38" ES Track Pads, CAT SU Blade
with Tilt, High Speed Oil Change. Warranty.



**CAT D8T LGP (2014) - 12,165 Hours** 38" Pads, CAT SU Blade, Choice of Ripper or Winch, Good U/C, Nice Tractor.



**CAT 980M (2017) - 5,500 Hours**Aggregate Arrangement, Choice of Buckets,
Auto Grease, All Servicing & Repairs Completed.



**KOMATSU WA500-8 (2017) - 6,659 Hours**Yard Loader Arrangement, 8.25 CY Bucket,
875/65R29 Tires,
Very Good Well Maintained Loader.



**RECONDITIONED CAT D6T XW (2013) 9,225 Hours**, SU Blade, **Complete New U/C**, 30"
Pads, Optional MS Ripper. **Warranty.** 



**CAT 980M (2016) - 6,490 Hours**High Lift, Dealer Maintained, GP Bucket With Side Guards, Steering Wheel, CAT Payload Monitoring, Auto-Dig Function, Axle Oil Coolers, CAT Auto Grease.



JOHN DEERE 872G (2013) - 5,840 Hours 6x6, Snow Wing, 17.5R25 Snow – Ice Tires, Front Lift Group, Frt & Rear Fenders, Work Ready.



**VOLVO A30G (2017) - 7,298 Hours** 23.5R25 Tires, Tailgate, Inspected, Serviced, All Needed Repairs Completed.



**CAT 773G (2014) - 15,245 Hours**Dual Slope, Lined & Heated Body, Auto Grease,
Rear Camera, All Needed Repairs & Servicing being
Completed, Good Tires.



CAT 773G (2012) - 12,495 Hours

Dual Slope, Lined & Heated Body, Auto Grease,
Rear Camera, All Needed Repairs & Servicing has
been Completed, Good Tires.





# Liebherr's new battery-operated crawler crane keeps job sites quiet and safe

unplugged is a 160-tonne only 2.5 hours. battery-operated crawler crane that features new Asafety-centric design technology like Gradient Travel Aid.

specifications as the conventional version and both versions are operated in the for safe operation. same way.

produces no emissions and Gradient Travel Aid for the runs at a low noise level, making it well suited for noise-sensitive areas.

### **Charging and noise-reduction**

According to Liebherr, the sound pressure level of three unplugged cranes in idling mode, at a distance of 16 m, is equivalent to that of a normal conversation on the jobsite from a distance of one meter, which corresponds to a value of 60 dB(A).

The LR 1160.1 unplugged can be operated with or without cable and the capacity of the battery is designed for 8 hours of lifting operation.

Also, the crane can be operated without restrictions while plugged into a conventional electric supply with 63 A, or charged within 4.5 hours. Using a 125 A supply,

Liebherr's new LR 1160.1 the battery can be charged in safe negotiation of slopes and machine in real time and

According to Liebherr, the designers of the crane laid The electro-hydraulic drive great emphasis on the safety has the same performance of the LR 1160.1 unplugged and it is equipped with all established assistant systems

The latest feature of the The LR 1160.1 unplugged LR 1160.1 unplugged is the

inclines. The crane's control compares it with the specisystem calculates the cen- fied safety limits of the tre of gravity and warns the relevant jobsite. So, the operoperator before the crane ator is aware of whether the leaves the safe area. While machine is in, or approachtravelling, the operator receives information about the permissible and actual gradient and the crane's overall centre of gravity at all times.

ing, a critical area.

When erecting or lowering the boom, the "Boom Assistant" indicates the approach to the tipping border and Also, "Ground Pressure automatically stops oper-Visualization" calculates ation before unintentional the ground pressure of the entry of an unsafe zone.

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1997 RPM TECH P-3500 dump blower,



1983 VOHL DV-4000, J.D. motor, tel-\$44.500



1999 VOHL DV-4000, louder mount,



SMI 7200 ribbon blower, rebuilt 1997 G.M. V-12.



1981 OSHKOSH R, c/w CAT 825 HP rear eng, 400 hours, 5000 tph capacity.



1996 SMI 8400, 4000 tons per hour. G.M - G.M, 710 hp. \$105,000



1978 SMI 5250, GM - GM, low hours, fresh paint. \$39,500.



SMI BK-3200 new augers, new impeller, \$11,500. bad motor (parts only).



1979 SMI BM-2200 GM-453, low \$23.500. hours, ex-municipality.



1979 SMI 5250 GM-GM, single cab, good condition. \$39,000.



**1990 SMI 5250A** c/w 2 GM diesels, front & rear, 2000 T.P.H., very clean, low hrs.



1998 BOMAG BW164AD, 66" drum, water system, very clean.



1975 CAT 14G, good runner



1987 FORD F-700, 4x4, GM Diesel, long frame, good condition. \$14,000.



1983 WESTERN STAR, 6x6, Cummins 270 HP, 18-46 axles, good condition!



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2014 JOHN DEERE 650J GPS (1 of 2), 2013 CAT D6TXL, 6000 hours, stk# 5000 hours, stk# 05047/05046



05052



**2013 JOHN DEERE 850J,** 11,500 hours, stk# 05054



**2014 KOMATSU D61EX15E**, 6,100 hours, stk# 05059



2015 KOMATSU D6516 GPS (1 of 2) 3,700 hours, stk# 05065/05067



**2006 CAT 930G (1 of 2),** 6,630 hours, **2007 CAT 938G,** 12,172 hours, stk# stk# 07021/07020



07018



2017 CASE TR270 (1 of 8 from 2017-2020), 1,814 hrs, stk# 08011



**2011 VOLVO SD45D**, 1,607 hours, stk# 09021



2007 INGERSOLL RAND SD70DTF, 2,459 hours, stk#09005



2008 CAT 815F, 5,255 hours, stk# 11003



2006 CASE CX160, 7877 hours, stk# 15034



2012 HITACHI ZX350LC-5 (1 of 2), 6,559 hours, stk# 15054



2012 HITACHI ZX470LCS5 (1 of 3), 9,011 hours, stk# 15060/61/15064



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



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



**2016 LINK-BELT 145 X3 LC**, 5,500 hours, stk# 15073



stk# 53014



2011 JOHN DEERE 85D, 7,292 hours, 2011 CAT 740B (1 of 2) & 7x 2014 CAT 740B, 8,657 hours, stk# 25015



Similar Model

2014 CAT 725C (1 of 2), 7,000 hours, stk# 25028/25027

## Kleemann's mobile monitoring application now available for impact crushers

Kleemann has announced that its Spective Connect machine monitoring iOS/ Android application has been extended to its Mobirex MR EVO2 mobile impact crushers.

Additionally, Kleemann has added two new functions to the mobile application.

### **Digital application with real** added value

Fuel level, fuel consumpcurrent gap setting and a time. lot more important process data can be displayed at **New functions for Spective** cone crusher. any time via the mobile app dashboard. In most cases, production.

same time, refers to the corresponding components and includes troubleshooting a clearly arranged manner. aids. The smartphone can support the operator step and elimination.

generates clearly arranged reports on consumption, plant performance and the plant usage. These reports can be forwarded by Kleemann is currently



## Connect

If a fault cannot be elimoperators no longer must inated, Spective Connect leave the cab or interrupt generates a service report which can be sent via mes-In case of a warning, senger to the servicing Spective Connect displays technician or a WIRTGEN not only the fault but, at the GROUP dealer. All operating hours, fault messages, etc. are available, at a glance in

The offline troubleshootbe taken to the location of ing aids make it possible, the fault that occurred and among other things, for a repair technician to remotely by step with fault evaluation support the machine operator because they see the Also, Spective Connect same troubleshooting aids. The technician only needs to enter the fault code and the plant type.

Spective Connect from messenger or e-mail. The available as an option for

complete process is visible the Mobirex MR 110/130(i) tion, plant performance, to the plant operator at any impact crusher, Mobicat MC 110(i) EVO2 jaw crusher and Mobicone MCO 90(i) EVO2



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# **John Deere introduces Protect**

**Parts & Fluids Plan** 

capabilities.

Now, John Deere is releas-Parts & Fluids Plan, which the preventative maintenperformed by the customer's own technicians.

According to the company, both the John Deere Protect Service Plan and the John Deere Protect Parts & Fluids Plan can help customers manage long-term ownership for machine maintenance.

"John Deere Protect service we had one request from our 1st, 2022. ■

In April of 2021, John Deere customers...added flexibility. released the John Deere Pro-Our customers recognize the tect Service Plan to support value of John Deere Protect customers through improved and the expertise their John aftermarket and support Deere dealer provides, but were either located in very remote locations or already had ing the John Deere Protect capable technicians on staff," said Dan Stecklein, Service includes the same John Deere Marketing Manager for John Protect benefits, but with the Deere. "John Deere Protect added flexibility of having Parts & Fluids Plan is based on the same foundation of ance labour and inspection machine warranties and assurances, use of genuine John Deere parts and fluids, and proactive machine monitoring, while enabling the customer to perform the maintenance labor with their in-house technicians."

The Protect Parts & Fluids costs and provide flexibility Plan became available for select John Deere construction equipment in the United plan was a great success, but States and Canada on March





KOBELCO SK35SR-6E Engine: 23.1 hp • Operating Weight: 8,555 lbs



**KOBELCO SK130LC** Engine: 96 hp • Operating Weight: 32,800 lbs



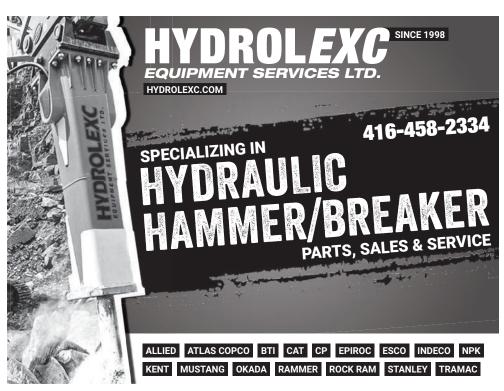
KOBELCO SK45SRX-7 Engine: 37 hp • Operating Weight: 10,648 lbs



2021 KOBELCO ED160BR-7 Blade Runner Engine: 105 hp • Operating Weight: 37,000 lbs

robertgreenequipment.com **Stephen Cargill at 647-554-5108** 

stephen@robertgreenequipment.com





## MB Crusher unveils two new shaft screening buckets

MB crusher has launched MB-HDS212. two shaft screening units designed for mini and er, these two shaft screeners midi excavators—the were created to simplify

According to MB Crush-MB-HDS207 and the tasks on all job sites, from aerating packed soil when preparing a garden to recycling and separating dirt from demolition debris, stones or roots. The attachments were specifically created for the gardening, landscaping and urban construction in-

> Both models are designed for mini and midi excavators, however the MB-HDS212 is also compatible with skid steers.

> The MB-HDS207 weighs 98 kg (216 lbs) and is compatible with a mini excavator with an operating weight between 1.3 and 2.8 tons.

The MB-HDS212 weighs 480 kg (1,058 lbs) and can be installed on midi excavbetween 8 and 9 tons, and unit's load capacity.

skid loaders from 4 to 5 tons.

According to the company, the coupler connection being lower than the rest of the unit allows for more control during the loading and processing phases, making it easier to get the job done.

### Simple maintenance

The shaft screeners have a sealed cover designed to withstand long-term use and shield the internal parts of the machine from materials such as dirt and sand.

Furthermore, the same cover protects the bolts and side casings, guaranteeing minimal downtime and the ability to continually work.

Similar to MB Crusher's other HDS models, the new units have shafts that are easily replaceable.

Also, a capacity increase kit can be installed on the MBators and backhoe loaders HDS207, which increases the









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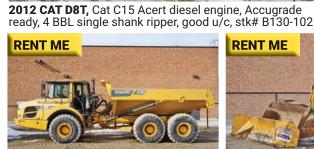
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2012 TO 2018 AMMANN ASC110 & ASC130, 84" smooth and padfoot, Cummins, 25,289 & 27,820 lbs.



2021 CAT 725 & 730, Cat C9.3/C13 Acert diesel 320/375 hp, 26.5/31 ton payload, drive, stk# B145-180/B145-179



**RENT ME** 

2012 VOLVO A25F, A/C, trainer seat, 2017 CAT 950GC, 225 hp, eng. block block heater rotating beacon, tailgate heater, ride control, Fusion Q/C, many avail. upon request, stk# B145-134 attachments available, stk# R110-100



attachments available, stk# R110-1001



**2018 CAT 926M,** Cat 7.1 Acert, 155 hp turbo diesel Tier IV Final, DEF, 4 spd EROPS, cold weather start, stk# B110-215



2022 LINK-BELT 3240 PROCESSOR, Isuzu 2022 LINK-BELT 3740 LOG LOADER, Isuzu 2022 LINK-BELT 380 X4, Isuzu Final Tier 4 Final Tier 4 diesel engine-160 hp, 20'2'



boom, 11'arm, 36'5"reach, Waratah H424 38'4" reach, 85,033 lbs operating weight, 50'5"reach, encl.cab w/hyd. cab riser, 20kw processing head, stk #R160-3240 rear entry encl. cab, stk #R160-3740 genset Baldor/Hubbell, stk #R160-3804



Final Tier 4 diesel engine-177 hp, 20'10", diesel engine-268 hp, 29'7" boom, 22'1" arm,



Just Arrived - 2021 LINK-BELT 160 X4, 112 hp, heat & A/C, multi-function hyd., 36"+42" heavy duty bkt, stk# B160-224



2020 HAMM HD12VV TANDEM ROLL-ER, 48" smooth drum, Kubota, water system, stk# B200-385









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## **Metso Outotec adds new mobile impact** crusher to Nordtrack range

Metso Outotec has launched geting smaller-sized appli- newest addition to our Norda new impact crusher to its cations and jobsites in the Nordtrack mobile crushing and screening range, tar-

construction and demolition waste recycling segment.

The Nordtrack I1011 mobile impactor has compact dimensions and a powerful, high-performance crusher, ideally suited for contractors and rental work.

Also, equipped with a large hanging screen, it combines high crushing capacity with calibrated end product ac-

According to Metso Outotec, the new Nordtrack I1011 crusher is suitable for working on jobsites ranging from rock crushing to concrete and demolition waste recycling.

It can be transported on a standard trailer, which bolsters cost-effectiveness and time management.

feedback from our customers and are happy to offer this offerings. ■

track range. The launch of Nordtrack I908S was very successful, and consequently we have been asked for a bigger mobile impactor unit," says Vesa Tuloisela, who heads the Nordtrack product offering at Metso Outotec. "The I1011 has a more powerful crusher and engine, resulting in a capacity as high as 300 tph. As a mobile crusher it also is well suited for the recycling of demolition and concrete waste, or reclaimed asphalt," he continues.

Nordtrack I1011 will be officially launch during a livestream, featured in Metso Outotec's Nordtrack Liveroom, which Metso Outotec refers to as a "360° digital event experience platform."

The liveroom features 3D demonstrations of the "We have listened to the Nordtrack range as well as information on aftermarket





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### **EllisDon wins CCA's Environmental Achievement Award**

The Canadian Construction Association's (CCA) National Awards recognize individuals, organizations and projects that promote and enhance the Canadian construction industry.

In 1991, the CCA created the Environmental Achieveleadership role that CCA member firms and associ-

EllisDon has been named the winner of the 2021 CCA Environmental Achievement Award, acknowledging the company's climate commit-

According to EllisDon, as a member company of the Science Based Targets initiative (SBTi), it has committed to setting verifiable science-based targets across the entire value chain that will consistently keep global warming to 1.5C above pre-industrial levels.

SBTi independently assesses corporate emissions reduction targets in line with the goals identified in the projects.

Paris Agreement and current climate science.

EllisDon claims that by setting aggressive targets for milestone dates as early as 2030, it is on a credible pathway towards achieving net-zero emissions by 2050.

"We are so honoured to ment Award to recognize the have our efforts recognized by the CCA as we work towards a more sustainable ations have taken to promote future," said Jody Becker, and undertake exemplary Chief Strategy Officer and environmental conduct with- Executive Vice President, in the Canadian construction Infrastructure Services & Technology at EllisDon. "Buildings and infrastructure make up more than 40% of global emissions — business as usual is no longer an option. It's critical we dramatically reduce global emissions, not only towards net-zero by 2050, but also to make significant reductions immediately."

EllisDon focuses its climate commitment on three core areas: driving to zero emissions across business operations, zero emissions in materials procured for all projects built and zero emissions in the operational performance of completed





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# John Deere acquires full ownership of three Deere-Hitachi factories

John Deere has acquired full with Hitachi Construction agreements. ownership of three Deere-Hitachi joint venture factor-

Machinery.

and supply agreements manufacturing and marketing tory approvals.

The two companies have nounced in August 2021 and manufacture Deere-brandies and has begun newlicense ended their joint venture were contingent upon regula-

The changes were an- factories will continue to of Hitachi-branded products. ed construction excavators ferred to as: and forestry equipment; they

The locations will now be re-

- John Deere Kernersville, Kernersville, N.C.
- John Deere Specialty Products, Langley, British Columbia, Canada
- John Deere Brasil Escavadeiras, Indaiatuba, Brazil

Through a new supply agreement with Hitachi, Deere will continue to offer a full portfolio of excavators.

Deere's marketing arrangement for Hitachi-branded construction excavators and mining equipment in the Americas has ended; Hitachi has assumed distribution and support of these products. Deere dealers may continue to support their existing field population of Hitachi-branded excavators.

With the completion of this tomorrow's world." ■

The former joint venture will discontinue production acquisition, John Deere now controls its excavator design, product, and feature updates, making it possible to more rapidly respond to customer requirements and integrate excavators with other Deere construction products.

> "Aswelaunch this new chapter, our legacy of innovation continues," John Stone, president, John Deere Construction & Forestry Division and Power Systems, said. "Going forward, we can leverage technology developed for other product lines and production systems across the Deere enterprise and extend those advanced solutions to Deere-designed excavators, strengthening the entire product portfolio.

> "We continue our mission to answer the fundamental need for smarter, safer, and more sustainable construction so our customers can shape





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**MBW AP2000 Asphalt Plate Compactors,** Honda Power USA Built., 20x22" Plate, water tank, 11Kn force. Starting from \$2,500

















# Montreal's Lion Electric announces partnerships with leading upfitters

The Lion Electric Company has announced several key partnerships with truck upfitters to provide new fully electrified thermal management system (BTMS), which keeps battery refrigerated, dry freight and aluminum stake body options for its Lion6 zero-emission urban truck.

The new partnerships include equipment upfit options from industry leaders Morgan Truck Body, Thermo King, Knapheide and CM Truck Beds.

Three Lion6 models were on display at Work Truck Week, which took place from March 8th-11th in Indianapolis, Indiana.

"The wide variety of upfit components is proof that electrification has arrived for a broad range of truck fleet customers, from dry cargo fleets to those with temperature-sensitive requirements. We are pleased to be working in close collaboration with four industry leaders as we continue to move toward a zero-emission future in trucking, and look forward to continuing to introduce new applications to our highly flexible class 5 to class 8 chassis vehicles," said Brian Piern, Chief Commercial Officer of Lion Electric.

### A versatile, sustainable urban truck chassis

The Lion6 is a class 6 zero-emission urban truck built on the experience Lion has gained from putting over 550 heavy-duty all-electric vehicles on the road, which have covered over 9 million miles to date.

Offering 200 miles of range on a single charge, the Lion6 is designed and built to be 100% electric from the ground up, with none of the engineering compromises and waste inherent to platforms retrofitted from traditional internal combustion engine designs.

The Lion6 also benefits from Lion's proprietary battery temperatures in the ideal operating range. The result is optimal performance in extremely hot and cold environments with minimal impact on range, as has been proven by Lion truck customers currently operating in harsh conditions in some of the coldest regions of both the US and Canada.

Now this battery technology can be leveraged not only for propulsion, but to simultaneously power a vehicle refrigeration unit as well—as demonstrated by the electrified refrigerated  $concept \, truck \, body \, at \, Work \, Truck \, Week \, by \, Morgan \, Truck \, Body.$ 

Mounted on a Lion6 chassis and utilizing a Thermo King all-electric refrigerated unit, the concept also features a 24-foot truck body that is seamlessly integrated with Lion Electric's vehicle systems and powered by the vehicle's onboard batteries—eliminating emissions and noise pollution caused by diesel refrigeration units.

With new stake bed upfit options in addition to dry freight bodies, the technology of the Lion6 can be leveraged for a wide variety of vocations. Lion's new partnership with Knapheide brings work fleets the option of an electrified lightweight aluminum 18-foot platform stake body, which also features an enclosed storage pack behind the truck cab to secure work equipment. Also, Lion debuted a larger stake upfit option for the Lion6 with a new 26-foot aluminum platform body in partnership with CM Truck Beds.

Additionally, an innovative dry freight body from Morgan Truck Body was shown at Work Truck Week, leveraging lightweight materials for improved payload and aerodynamic

features such as side skirts to maximize range.

According to Lion, these new upfit equipment options make the Lion6 the perfect zero-emission solution for the final stage of delivery, with all of the advantages electric trucks have to offer—including an advantageous total cost of ownership in comparison to internal combustion engine vehicles.

The company claims that with fewer moving parts and preventative maintenance items such as lubricants, filters and belts, its trucks offer maintenance savings of up to 60% and energy savings of up to 80%.



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2010 John Deere 304J. 11.900 hrs, machine received new Deere engine at 5191 hrs, coupler. bucket, aux.hyd., EPA present



**1998 Superpac 840**, 11,200 hrs



2003 Peterbilt 330 with Multi-Cat by Bay-Lynx MC15-222, 21,215 hrs, 14 cu.yd capacity, visit website for list of all features & options.



1999 Ingersoll Rand SD100D, 6,800 hrs.



2007 Western Star 4900, 2012/13

Reimer RA 850-25, 9000 hrs,10 yd

unit, 60 yds/hr, admixture, 11 cu.yd

2009 Hitachi ZX160LC-3, 5,200 hrs, rebuilt engine & pump, 28'



2011 Cat 390DL, 15,700 hrs, rec'd Cat drop in reman engine at 12,248 hrs, 32' reach boom, 18'1" arm, Briggs bkt, OW: 190,106 lbs.



2009 Kubota KX121-3, 3,510 hrs



2010 JC 3 AXLE TRAILER



track pads, 36" bkt, 10'2" stick w/ wedge type bkt coupler, serviced.



2018 Kubota BX2380, 72 hrs

**2008 Metso Locotrack Crushing** Spread (3 pcs), 4,500 hrs. Visit website for complete description.



2006 Cat D6R XL, 14,500 hrs. drop in reman engine at 9,000 hrs. work ready w/semi-U blade, one owner machine-good condition.



**2020 Volvo**, VHD84B300,19,000 km's, 70000 lbs. GVW powered by a Volvo model D13 500 HP w/12 spd auto trans. State of the art Haib Multilift XR Hooklift System.



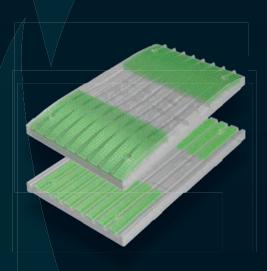
2008 John Deere 824J, 23,000 hrs, meticulously maintained from new-one owner, machine is audited at every PM interval.



2015 Cat 242D, 3,243 hrs, very good condition, 2 spd, high flow hyd., deluxe panel, keyless start, HVAC cab, new tires & rims.

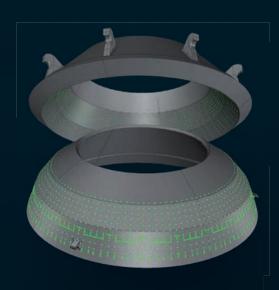
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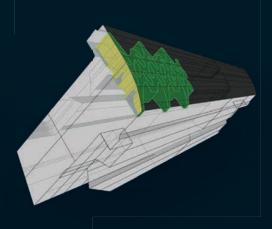
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# **Government of Canada supports growth** of family-owned manufacturer

International Women's Day green economy as we conis a globally-recognized celebration of the critical social, economic, cultural of women.

preneurs play a vital role in for Canadians." our country's economy yet success.

According to the Govcommitted to driving a future that addresses systemic gaps and empowers women in our economy.

Ontario), has announced, on International Women's Day, that a Government of Canada investment of \$755,500 the Jobs and Growth Fund (JGF) to Lubecore Interinvestment is to modernize longevity of machinery. and enhance operations at growth.

Canada recognizes the im- modernize its Campbellportance of making smart ville production facility, investments in Canadian adopt digital technologies businesses to ensure that to grow its operations and our Canadian manufacturers are leaders in sustainable have previously been made manufacturing," says Minister Jaczek. "Today's investment in Lubecore federal government looks International, highlights our to ensure that Lubecore government's commitment remains competitive and

tinue to create good, secure jobs for Canadians. By supporting local manufacturers and political achievements and protecting Canadian transforms and looks to the jobs, we're creating a resili-In Canada, women entre- ent and inclusive economy generating skilled jobs that

continue to face barriers to Linda Eisses and her for the support we have rebecore International Inc. of Canada through FedDev ernment of Canada, it is is a manufacturer of auto- Ontario as we continue to mated greasing systems for grow our company," says strong, inclusive economic equipment across many in- Linda Eisses, Vice President, to ports and terminals.

In the construction sec-The Honourable Helena tor specifically, Lubecore Jaczek, Minister responsible manufactures automated for the Federal Economic greasing systems for dump Development Agency for trucks, backhoe loaders, Southern Ontario (FedDev dozers, crushing plants, screening plants, excavators, graders, pavers, road grinders and wheel loaders.

The company focuses on was being made through contributing to sustainability in the many sectors it serves by manufacturing national Inc. The aim of the products that increase the

The Government of Lubecore's manufacturing Canada claims that with facility, create jobs and lay this investment, delivthe foundation for future ered by FedDev Ontario, Lubecore will be able to "The Government of purchase equipment to begin producing parts that outside of Canada.

With this support, The to Canada's transition to a well-positioned for long

term stability and growth. Also, it will create 15 new skilled jobs at Lubecore.

"As Lubecore International future, we are excited to be will strengthen our local Founded in 2008 by economy. We are grateful husband Jan Eisses, Lu-ceived from the Government dustries, from construction Lubecore International Inc.





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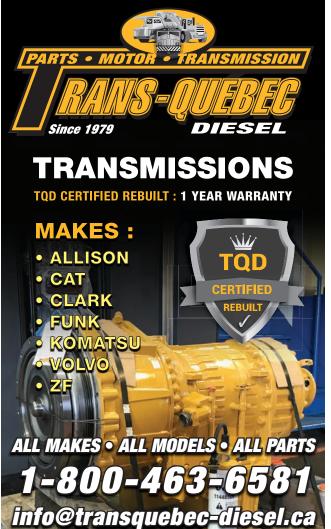
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# **Trimble announces Jobsite Connectivity software bundle**

the Trimble Jobsite Contion is digital, and the pain points. This solution is nectivity Bundle, a software release of the Trimble Jobbundle that links 3D models site Connectivity Bundle is and data across Trimble civil a significant step forward in construction hardware and software solutions.

According to Trimble, these software solutions provide a fier, more reliable and more fluid nectivity Bundle connects more efficient and reliable efficient," said Elwyn Mctransfer of files throughout Lachlan, vice president for tions and now allows users the construction lifecycle, giving contractors a single source of truth for constructible data both in the field and office.

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terms of making sharing and collaborating on 3D designs and project data faster, eas-Trimble Civil Software. "We to purchase them more cost frequently hear from customers that the disconnect between the design and the

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"The future of construc-field is one of their biggest designed to help solve that problem by reducing the burden of handing off data and design files between the engineer and the field crew."

The Trimble Jobsite Conthe following software solueffectively:

- Trimble Connect<sup>®</sup> Collaboration Software: a cloud-based collaboration platform where project stakeholders can share, review, coordinate and comment on construction models. schedules and other project information
- Trimble Business Center: takeoff and modeling software that can be used to calculate earthwork and material quantities for bids, build constructible 3D models for construction surveying and machine control. and more
- Trimble WorksManager Software: a cloud-based application that remotely sends construction-ready models to machines and construction surveyors in the field so operators

the latest designs Trimble WorksOS Software: a SaaS solution that integrates design data from the office with madata to provide real-time compatible solutions. jobsite progress and productivity updates

In addition to the software solutions available as a bundled offering, the Trimble Jobsite Connectivity Bundle enables interoperability between other software integrated with Trimble Connect, Access survey software. including SketchUp, Trimble Quadri BIMsoftware and Availability and third-party solutions.

According to Trimble,

Trimble Jobsite Connectivity Bundle makes it easy for users to synchronize projects and data with Trimble Connect to share and collaborate on conchine control as-built struction files and all other

> Also, design data from the office solutions uploaded to Trimble Connect can now be shared with machines and surveyors in the field who are using the Trimble Earthworks Grade Control Platform, Trimble Siteworks Positioning Systems and Trimble

# **SDK** compatibility

In addition to increased

are always working on the interoperability of the connectivity with Trimble **Business Center, contractors** that are using non-Trimble design software are able to leverage the Trimble Connect Software Developer Kit (SDK) to integrate thirdparty applications with Trimble civil construction software.

> Users can leverage Trimble Connect or develop third-party applications to enable the streamlined import of LandXML files to easily integrate design files into construction workflows.

According to Trimble, the Jobsite Connectivity Bundle will be offered globally through SITECH's worldwide distribution channel.





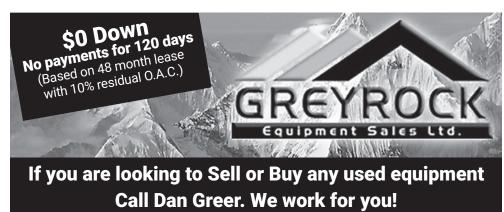
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### 2019 JCB 505-20 TC

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### 2013 JCB 510-56

Road lights, Hydraulic side Tilt carriage, 17.5 x heat, 4 Wheel Drive, 3 steering modes, Road \$69,900 Light kit, Foam filled tires, Good rubber, Excellent condition. \$94,500



### 2016 JCB 525-60 AGRI

5500Lb Lift cap. to 20', 4 wheel drive, Cab with **\$84,900** heater, Auto rev. JCB Q/C, 3600 hours. **\$84,900** 

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### "...one of our operators compared the Bobcat S66 R-2 series compact skid-steer comfort to a luxurious Escalade. Another operator said it's like a Denali."



(L to R) Joe Palfy, sales specialist for Bobcat of Toronto with Matt Ozorio and Dave Korkis owners of J&J Equipment Rentals who just took delivery of four new Bobcat machines.

J&J Equipment Rentals, family-owned and operated by Matt Ozorio and Dave Korkis, will be celebrating its one-year anniversary in March. [&] is named after both of their sons, Joseph and Jacob. They have a branch in North York and Caledon East but cater to the whole GTA and surrounding areas.

When they were asked what sets them apart from the other rental companies, their answer was "we are available 24/7 for our customers. When they call, they get us. We bring the equipment right to them, on time and we even work weekends. Not many do. We offer our customers new equipment because you can't put a price on comfort and reliability," stated Matt and Dave.



In less than one year, they have bought eight new Bobcat® machines. Matt explained they went to different dealers first to make sure they did their due diligence, but the innovation was with Bobcat machines and the best customer service was with Joe Palfy, sales specialist with Bobcat of Toronto, so that is where we purchased their machines. "Joe was straight with us and is very passionate about what he does. He didn't push us. He has never steered us wrong and has been true to his word. I talk more to Joe now than anyone," said Matt.

"We have nothing but positive feedback from our customers on the Bobcat machines. A few have even wanted to buy them, especially the Bobcat S66 compact skid-steer R2 series. Our goal is to have a huge fleet of the R2 series. The customers absolutely love the extra comfort and added options like the heated seat, air conditioning, etc. on them. One of our customers said our one of our operators compared the Bobcat S66 R-2 series compact skid-steer comfort to a luxurious Escalade. Another operator said it's like a Denali. The operators fight who gets to use it when they start work in the morning.

"We shifted our focus on heavy equipment more so on the landscaping, residential homes, waterproofing, pool installing, concrete contractor side as they are so busy. We need to make sure we have equipment in for them," stated Matt.

"Bobcat machines, Joe Palfy and Bobcat of Toronto have all been reliable and have helped our business grow substantially in the last year. We wouldn't hestiate to recommend them", stated both Matt and Dave.

Thank you Matt and Dave.



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# **Mack Trucks now offers Allison 3000 RDS** transmission as option for MD Series

Mack Trucks has expanded additional options for appliits offering to medium-duty customers by announcing that the Allison 3000 RDS transmission is now avail-MD Series models.

Mack made the announce-Center.

According to the company, expanding to include the Allison 3000 RDS as an option for the MD Series will allow

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cations that demand more power but are best suited for medium-duty vehicles.

"Mack is pleased to now able for order for the Mack offer the Allison 3000 transmission as an option," said Dayle Wetherell, Mack's vice ment during the 2022 Work president of medium-duty Truck Show, which took sales. "The transmission enplace from March 8th to 11th ables customers to haul more at the Indiana Convention payload and utilize a live also offers a higher Gross power PTO, both of which are critical for our customers desiring a medium-duty vehicle that can handle demanding applications."

> Previously, Mack only offered the Allison 2500 RDS for its MD Series models. which are assembled at its Roanoke Valley Operations be spec'd to be a Class 6 with (RVO) plant in the Roanoke Valley, Virginia.

> The company claims that the Allison 3000RDS MD Series, Mack now offers transmission offers greater versatility for customers in 4x2 refuse, tank and dump applications.

The MD Series, equipped with an Allison 3000 RDS transmission, is approved at a 33,000-lb Gross Vehicle Weight Rating (GVWR) for refuse and recycling applications, allowing the Mack MD to haul more.

Furthermore, the Allison 3000 also allows for a live Power Takeoff (PTO) for MD Series tanker trucks delivering heating oil, water, fuel and propane, and dump trucks, enabling the vehicle to move while using the PTO at the same time.

"The ability to have a direct-drive PTO is extremely important for some of Mack's

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medium-duty customers because they can lift and lower a dump body while driving without worrying about what gear the truck is in," said Tim Wrinkle, Mack construction product manager. "It's also important for snowplows and salt spreaders that need to work at the same time."

The Allison 3000 RDS **Combination Weight Rating** (GCWR), allowing customers to drive the Mack MD Series model and pull utility trailers with small excavators. The Mack MD Series, equipped with an Allison 3000RDS, will have a GCWR of 45,000 lbs.

The Mack MD Series can a GVWR of 25,995 pounds and a Class 7, with a GVWR of 33,000 pounds. With the a complete lineup of vehicles from Class 6 to 8.

According to Mack, the MD Series meets a wide variety of needs for medium-duty trucking applications, including dry van/refrigerated, stake/flatbed, dump and tank truck vocations. Also, the Class 6 model does not require a Commercial Driver's License (CDL) to operate for non-hazardous payloads.

Available in 4x2 configurations, the MD Series features a sharp wheel cut for enhanced maneuverability in tough urban settings.

The MD Series cab design has a bumper-to-back-of-cab (BBC) measurement of 103 inches and is supported by Mack's dealer network. ■

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# Strongco pilots Volvo's electric equipment at the Toronto Zoo

In September of 2019, Volvo a regular household plug Construction Equipment socket. (Volvo CE) unveiled its first commercial zero-emissions of unique applications these electric compact excavator machines are suited for, and wheel loader, delivering on its commitment of some distributors. 'Building Tomorrow.'

engine with 48-volt lithium Ontario-based Strongco ion batteries and electric motors, the ECR25 excavator dealer that has operations equipment around animals and L25 wheel loader are designed to offer the same performance, but with zero services equipment from comfortability of the animals. emissions, low noise, less its 25 branches across Canvibration and simpler maintenance requirements.

According to Volvo CE, the batteries can store applications, such as land-

To get an idea of the kinds Volvo sent demo units to

One of these distribu-Replacing a combustion tors was Mississauga, Corporation, an equipment across Canada.

> ada and represents various the zoo, it is typical for the equipment manufacturers, including Volvo CE.

The company has been enough energy to power an putting the L25 and ECR25 eight-hour shift in typical to the test, taking them to various operations to see scaping and utility work, and how the machines could be ly-low noise levels of the can be charged overnight via used and to garner feedback.

> Jeff Lillycrop, CPPA 905-977-8402 jblappraisalservices@gmail.com

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One especially unique job site was at the Toronto Zoo.

### **Keeping the animals** comfortable

At the Toronto Zoo, workers separated the Bison, as they normally would, to perform maintenance and add feature to the habitat.

When working with heavy in a zoo, the most important Strongco sells, rents and thing to be aware of is the

> According workers at bison to grow impatient after about an hour of listening to machines powered by combustion engines intruding on the land they call home.

> However, the extremeelectric equipment did not seem to disturb them at all.

> "We can be working in here and there's no loud noise right now. The animals are still quiet in their exhibit or holding pen," explained Neil Grant, Horticultural Lead Hand at the Toronto Zoo.

> Management and employees were very happy with the results of the pilot pro-

electric equipment to their

Outside of animal safety, doing that. We're trying to get it done with the entire fleet."

In terms of how the machines would be applied, Neil Grant explained: "We would use them for inside exhibits, building garden beds. Sometimes we have use them around the public."

According to Ben Waldron, ject and expressed interest Territory Sales Manager at

project for Volvo Construction Equipment, along with another Territory Manager, wheel loader and ECR25 issues with water mains, so it excavator have garnered would be perfect to be able to interest from other animal handling facilities such as to a job site, I don't think horse stables.

The idea of replacing tried in adding some of Volvo's Strongco, who led the pilot and true combustion engines

with battery is unnerving, and even mocked, by some.

However, in this instance, Geoff Mokry, the Volvo L25 it is clear that the positives greatly outweigh any nega-

> "If we can bring less stress there's anybody laughing at that," said Waldron.











# Hitachi Construction looks to foster direct relationships in North America

Latin America.

ginning of HCMA officially leading region, not only with wheel loadthe Hitachi brand's construction ers but also with other products, and mining equipment sales and services and solutions. Expansion service support efforts.

Vice President and Executive Officer Yasushi Ochiai outlined what customers, dealers and the industry can expect moving forward.

joint manufacturing venture ica and Latin America will be one moving forward, dealers and cusbetween Hitachi Construction of the most important for the com-Machinery Americas Inc. (HCMA) pany in the 70 years that HCM has the same way the rest of the world and John Deere on March 1st, been developing, producing, sell-2022, HCMA looks to start a new ing and servicing construction and chapter in North America and mining machinery. "It has been machines and technologies while the dream of many years for HCM This new chapter marks the be- to explore its own business in the of business in the Americas will At a commemoration celebra- give further momentum to the detion event held for employees velopment and production of new at the HCMA headquarters in machinery, and the promotion Newnan, Georgia, HCMA CEO of sales and services. The Hitachi Alan Quinn and HCM Executive Construction Machinery Group will become a true global player."

Quinn added that March 1st marked a historic day for HCMA, During his address, Ochiai said been used on construction sites and safe operating experience and for this new chapter in Hitachi's Quinn.

does with a direct relationship. We are preparing to launch new focusing on having a more direct relationship with our customers and dealers. We will do whatever it takes to be the best supplier our customers and dealers work with."

In addition to celebrating this new direction for Hitachi, the first fleet of trucks loaded with Hitachi orange equipment hit the road bound for HCMA's dealer network. Simon Wilson, vice president at HCMA, said the excavators and designed to help contractors opti-

tomers will experience Hitachi advances the market can expect from Hitachi," said Wilson. "Over the next year, HCMA will be introducing many new models that incorporate the latest in hydraulic systems and innovative 'uptime' and IoT services, as well as increase the capabilities of Hitachi ConSite, with an initiative to add more telematics and predictive analytics to our equipment lines."

On the mining side of HCMA's business, HCMA Senior Director, Mining Equipment Sales Babliton Cardoso met with dealers and mining executives at the 2022 America represent the largest con-MINEXCHANGE Conference and wheel loaders on those trucks are Expo in Salt Lake City, Utah. "It was a great event, and there is a Hitachi orange with the indus-"While Hitachi equipment has mize production, have an efficient lot of excitement in the industry try's best equipment," concluded

Following the dissolution of the that this expansion in North Amerand mines throughout the region, help manage their operating costs. history of delivering innovative "This is just the beginning of the and dependable mining machinery. Many people told us they've been waiting for us to make this move. Our team looks forward to working with them for many years to come."

> To support dealers and customers, HCMA is expanding its corporate headquarters with the addition of a 400,000-squarefoot parts distribution center and more personnel. According to the company, more than 60 highly qualified individuals have already joined the team since August 2021.

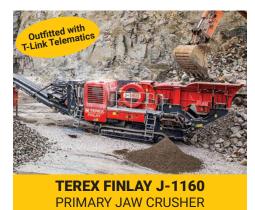
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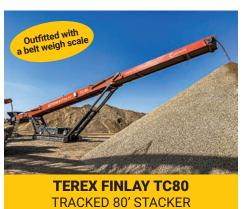














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# McCloskey aims to extend machine life with new 365SiteConnex telematics

McCloskey International has stackers to allow customers to McCloskey International. introduced a new way for customers to enhance business operations and boost producthe field.

365SiteConnex, a complete connectivity solution for highly accurate monitoring of McCloskey products, is based on the latest leading-edge communication technologies to collect, analyze and deliver information on the crushers, screeners and stackers customers rely on to produce the highest quality products with

Monitoring a fleet is key to reducing this downtime and maintaining efficiency and profitability. With 365Site-Connex, McCloskey has set out to bring key information for any machine to customers in just a few clicks. This would allow users to review faults or status issues from a single notification feed, monitor fuel usage across all machines and monitor service schedules and requirements.

Additionally, with GeoData, a machine's current and previous locations can be tracked. So, fleet managers can track everything from manoeuvres on a worksite to long distance transportation. Also, Geo-Fences can be programmed to be notified if a machine goes outside its designated area.

Key information is easily accessible across devices and is grouped in easy-to-navigate pages, including engine and feeder data, diagnostics and event logs.

The program will be offered on crushers and screeners initially, followed closely by sonen, Senior Vice-President,

have a full and comprehensive remote view of their operation.

In addition to standard functivity for their equipment in tionality like machine status will allow measurement of key production and cost efficiency latest program upgrades, as indicators including fuel consumption, production, and the 365SiteConnex service engine hours to analyze idle team. According to McClovs. productive time. Also, it will allow benchmarking between analytics drawn from the operation and performance.

According to McCloskey, the least amount of downtime. 365SiteConnex serves as a features and benefits. contributor to the machine's lifecycle through its service support modules. For example, critical components like alarm information and error logs will alert users to function issues, along with metal detector notifications to protect the equipment in tough applications. To extend the life of the machines, machine usage history information related to wear part history data and liner replacement information are programmed into the system to facilitate monitoring of machine performance on an ongoing basis.

> "McCloskey's success has been built on listening to our customers and working with them to design and develop the best features and functions for their equipment. Building 365SiteConnex on the latest technology platform based on this allows us to deliver an innovative digital product and service that will contribute to higher productivity for their operations," said Toni Laak-

365SiteConnex will be available in the first quarter of 2022 through McCloskey dealerships as a subscribed service. and location, 365SiteConnex The software will offer remote software updates to deliver the well as remote support from skey, the information and the plants to identify critical ongoing evaluation of the similarities and differences in program will allow for continuous improvement and development of additional













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# **How to Improve Job Site Metrics with Wearables**

By: CONEXPO-CON/AGG

Wearables have become a very fashionable topic in the construction industry, but it's not all window dressing. Every day, wearables are promoting health, safety, connectivity, productivity and accuracy on construction sites.

### An accessory for every occasion

introduced to the construction industry with the aim of making employees safer.

Dash cams are being installed into truck cabs—but not to record traffic—to record the activities of the driver. Truck syndrome (HAVS). companies want to make sure drivers are checking their behind the wheel.

The Spot-R fall alert and emergency evacuation system

from Triax Technologies monitors employees' movements to alert safety personnel if the device changes elevation quickly, indicating a fall. And it alerts workers of a emergency evacuation

The Scan-Link RFID tags monitor employees' locations and alerts equipment operators of employees who are located behind the machine.

Some smart watches detect vibration; that technology A number of employee monitoring systems have been is used to monitor the ramifications to the body from using power equipment for a long time. Alerts tell the end-user when power tool use exceeds what the body can safety perform, and this is to prevent hand-arm vibration

Smart helmets monitor several health elements, such mirrors and especially aren't using their phones when as fatigue, heart rate and stress, so workers and management can modify worker's activities in ways that promote employee health and job site safety and productivity.

### Turning historical data into predictive analytics

A lot of times, this monitoring can lead to policy changes and coaching opportunities.

"One customer who uses our Scan-Link RFID technology reported to me the following story," says Jonathan Fava, president, Scan-Link Technologies, a CONEXPO-CON/ AGG exhibitor. "We were looking at the number of times equipment operators were alerted to the presence of a nearby worker, and we noticed one person was causing a lot of alerts, so we pulled that individual aside and asked him why. He explained that he's the flagger so, when operators load the machine onto a float, he gets up on the float to aid the operator place the machine. We advised him that behavior is unsafe; he could get struck by the machine or fall of the float. So, we told him a safer way to perform his job and wrote down new safety protocols into our guidelines and training."

Using historical data to learn how things happen is the first step to promoting safety on the job site. "It's not enough just to learn how accidents have happened," says Fava. "The next step is to analyze data in order to prevent accidents from happening.

With all of the employee detections picked up by the Scan-Link system, managers can identify "hot spots" spots where machines detect people the most frequently.

"Using this data, customers can identify areas where a struck-by incident is most likely to occur. Then, customers can make decisions that will decrease the risk of an accident from happening by moving the location of materials, so workers don't have to walk in a machine's workspace or by putting up signage warning employees of high-risk areas," says Fava.

### Assisted reality connects two physical worlds

Wearables are also instrumental in merging realities, which is bringing connectivity, productivity and accuracy

Exoskeleton and assisted reality headset manufacturer Real Wear just released the second version of their assisted reality headset, called the RealWear Navigator 500.

It is sleeker, lighter and is more ergonomic than the previous model (the HMT100) for all-day comfort yet is rugged and durable for use on construction sites and in

industrial settings. It features a modular design, a 48-megapixel camera sensor with enhanced zoom capability, incredible low light performance, and is compatible with more than 200 optimized apps. A hot-swappable battery allows for continuous use the whole day.

"With the Navigator 500, we wanted to provide scale enterprise solutions as part of the digital transformation movement. Today, we see the acceleration of digital transformation on the future of work, especially since the pandemic," says Andrew Chrostowski, chairman and CEO, RealWear Technologies. "Our device is hands free and keeps you present. You don't want your head stuck in the meta verse when you're working around heavy

The device allows the user to take photo and video at six different zoom levels, as well as call someone. The device takes audio commands for all features; you say the words "take a picture" or "zoom" or "call Herald" and it does it, so you can keep your hands on what you're doing.

With it, users can aid in remote inspections and diagnostics. By equipping someone at the job site with the Navigator 500, they can act as the eyes for inspectors and technicians, so inspections and troubleshooting equipment can be done remotely, saving time and travel costs.



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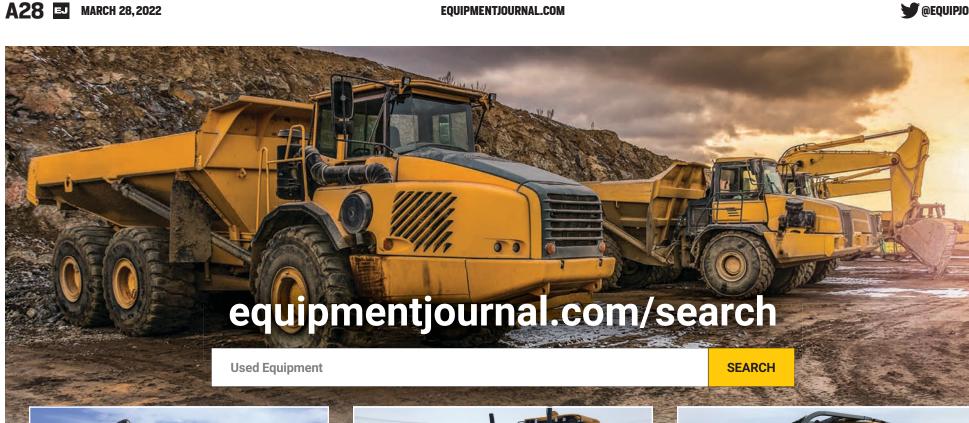




Continued on A30











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**2009 SULLAIR 1600H** 4,450 HRS





**2017 CATERPILLAR D8T LGP** 3,685 HRS





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# **SENNEBOGEN delivers increased** safety & performance in Kyoto

ator into a material handling machine, it proved to be a useful short-term solution. more powerful and more efficient in order to reduce operating costs. The solution was a custom-built SENNEBO-GEN 830 E with a 15 foot (4.5 m) pylon and powered by a 180 hp (132 kW) electric drive motor that was purpose-built to meet Iwamoto's material handling requirements on **Differences explained** this site.

a major player in Japan when it comes to metal recycling. More than 90,000 tons of scrap metal is processed every month at 11 scrap yards spread across Japan. And with recycling experts predicting an increasing influx of scrap materials, particularly from the automotive industry, Iwamoto Metal Co. will only be busier as time goes on.

### **Modern material handler** replaces modified excavator in metal recycling

An influx of scrap means that machines are subjected to higher loads, required to process more material within the same time frame and every square foot must reach to maximize their onsite material handler. The mabe used more efficiently. Iwamoto Metal Co.'s new SENNEBOGEN acquisition will play a key role at the site, loading the metal scrap delivered by trucks and feeding the hopper of the 23

When Iwamoto Metal Co. foot (7 m) high shredder. In sized, the Iwamoto Metal Ltd.'s converted their excav- fact, it was the reach and Co. Ltd.'s 830 E Series maversatility that allowed for terial handler continues to this decision to ultimately be an easy one. Swapping philosophy that the more a However, when it was time out a converted earthmoving machine is customized to the to replace it, they knew that excavator with a machine that customer's needs, the more their new machine had to be is purpose-built for material handling operations and has order to be environmentally been customized for the ma- responsible while also reterial handling conditions at ducing their operating costs, Eichigawa is like having your they chose a SENNEBOGEN suits tailor-made... they fit material handler with a 180 perfectly and you always look hp (132 kW) electric drive your best regardless of the powerplant. situation!

Iwamoto Metal Co. Ltd. is between an earthmoving infeed deck of the 23 foot (7 excavator and a material m) high shredder. Thanks handler? "Excavators often to the hydraulically raised reach their limits in recyc- Maxcab, the operator has a ling and scrap handling in clear view of even the most terms of load capacity, engine remote corners from his power and cooling," explains vantage point now being 32 Takeshi Iwanami, product feet (10 m). This absolutely expert at SENNEBOGEN's increases his efficiency while Japanese sales and service at the same time, reducing the partner Sun Earth Co. Ltd.

> Conditions in earthmoving differ from those in material handling: earthmoving noticeably more power and excavators are designed to exert their force downwards, directly into the soil. Material handlers are designed the Iwamoto Metal Co. had to reach high heights with relied on the green machines maximum payloads. In these situations, excavators don't sites. "We are glad that we have the necessary power or decided to go with the electric performance.

### **Increased performance** through customized configuration and electric drive

In addition to being right-

showcase the SENNEBOGEN efficient it is. Furthermore, in

The 15-foot (4.5 m) pylon elevation provides the best possible view of the scrap What are the differences piles being loaded on to the to visibility challenges.

> With a much better view, precise control the operator is genuinely pleased with the new machine. For years, "Made in Germany" at all their operating costs are much lower," emphasizes Hiroshi Iwamoto, Managing Director of Iwamoto Metal Co. Ltd.



Material handler with a crawler undercarriage on a 15 foot (4.5 m) pylon powered by a 180 hp (132 kW) electric motor. This machine was purpose-built for the material handling conditions of Iwamoto Metal Co. Ltd.'s largest plant.

Iwamoto Metal Co. Ltd. has seen first-hand how a purpose-built scrap handler is better suited to their operation than a converted excavator. But why is the difference so pronounced? The key is the difference in purpose: one machine is built to lift heavy weights above ground, while the other is supposed to dig deep below ground level.

That difference in geometry risk of any accidents related means a lot to the engineers who design such machines. The stresses on the structural components are distributed very differently, so the parts are designed to handle different points of wear. When an excavator is forced to reach up very high with a full load, the weight is transferred to places that were never intended to carry it. The same is true when you mount a high-rise cab on chine performs much better an undercarriage that was not than its predecessor and the designed to stabilize such a top-heavy-structure.

> Excavators generate massive break-out forces to take big bites into the earth. Their booms, hydraulics and power

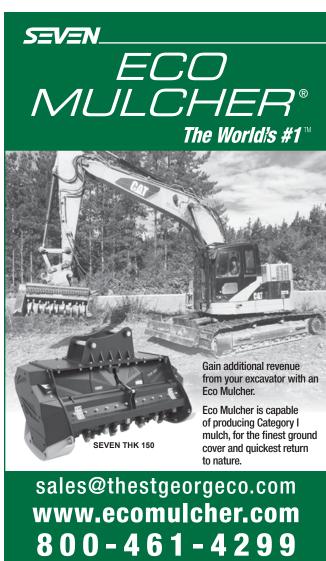
needed to swing a grapple or magnet load of scrap. Instead, the scrap handler is built for speed, to lift high and swing fast. The engine power and heavy frame of the digging machine are simply a costly energy drain in scrap handling tasks. What the scrap handler really needs is smooth handling and dampening of the vibrations so operators can run non-stop for entire shifts without fatigue.

Outwardly, the two machine types appear very similar, but closer examination shows you how engineers recognize their different purposes. For example, on a scrap

**Scrap handlers vs excavators** train are all built for that purhandler, the hydraulic stick pose. But these forces are not cylinder is positioned on the underside of the boom, to power the stick upwards to the top of its lift range. The stick cylinder of an excavator, however, is located above the boom, allowing to leverage the stick and bucket down into the earth more efficiently. The scrap handler is also designed to support its counterweight while the counterweight on a converted excavator is added as an afterthought.

> Both machines are built for a purpose. Choosing the machine that is built for your purpose will pay off in performance, uptime, efficiency and safety.







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# **Vermeer introduces point-to-point** technology for PD10R pile drivers

Vermeer has announced that isting PD10R auto-plumb and new PD10R pile drivers can auto-target features. Now, now be outfitted with auto- with the push of a button, pile mated machine positioning driver operators can allow technology.

### **Automatic positioning** system for efficient performance

Vermeer PD10R pile drivers equipped with a new point-to-point (PTP) system can reposition themselves Howit works automatically using onboard

After driving a pile, the machine operator presses a button and the remote-control-operated PD10R travels and aligns itself to drive the next pile.

According to Vermeer, this automation technology helps ease the pile-driving process by reducing the number of operational steps involved with moving these machines on solar farm construction projects.

"Hundreds of piles need to be driven before racking is assembled and solar panels can be placed, and exact pile positioning is crucial," explained Ed Savage, product manager at Vermeer. "The optional point-to-point technology package for the PD10R further enhances ex-

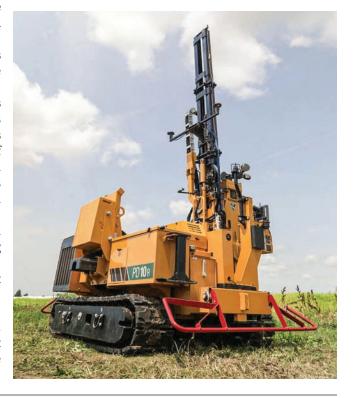
the PD10R to automatically track to the next pile location. When using this automation technology, operator input is reduced by eight steps, which also helps optimize new operator training."

The point-to-point system works by syncing GPS

coordinates with a digital project map of identified pile sites.

After a pile is installed, the automation technology recognizes the next waypoint (pile location) on the map, then moves and positions itself into alignment.

In addition, Vermeer equips each end of its PD10R PTP models with bump bars that disengage machine movement when they encounter an obstacle.





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Continued from A26

### **Augmented reality expands** by becoming handheld

The Trimble XR10 with and reality. The technology connects virtual reality to mixed reality.

HoloLens users can see both the physical world and the virtual world; the digital image is overlaid onto the physical world.

This technology is especially handy to trades; now, they no longer need to look at paper designs for what they are installing and then try to map out where that is in the physical world by establishing a frame of reference and taking out the measuring tape; they can simply see, for example, the virtual pipes and their detailed measurements, and install the pipes with high ble Connect AR users in the mgren.

accuracy. They can also see what is being installed nearby, so they can identify potential complications.

Microsoft HoloLens brings a hibitor at CONEXPO-CON/ different kind of connectivity AGG, recently expanded the potential for BIM (business information modeling) users physical reality to provide to deploy augmented reality on the job site by introducing the Trimble Connect AR app, which is compatible with Trimble Connect. The app is downloaded to a phone or tablet and allows users an augmented reality experience by pushing BIM data to their phone and overlaying it onto images of the real world on the device's screen.

"This eliminates what can to some customers," says Martin Holmgren, general manager of building field solutions at Trimble. "And users can interact with Trim-

digital space. For example, I can leave a message in the digital space with my Trimble XR10 and someone with the Trimble, a featured ex- Trimble Connect AR app on their phone can detect the message, even weeks later as they walk by the location where it was left and read it. This greatly enhances communications and streamlines workflows."

Trimble expects people who don't need to be fully hands-free, such as supervisors, managers, inspectors, and building owners will use it to perform tasks, such as QA/QC, updating punch lists, and measuring construction progress.

"The app allows for the be a costly financial barrier incorporation of AR into workflows that don't require the user to be hands-free, and we think our app will ultimately drive AR in a much wider range of adoption," says HolA WIRTGEN GROUP COMPANY



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MARCH 28, 2022 EJ



# EXCAVATION & EARTHMOVING



Family-owned equipment rental and sales company gains an exclusive partnership with XCMG and echoes the manufacturer's dedication to the market

2009.

product line through a partnership with construction manufacturing company, Xuzhou Construction Machinery Group (XCMG), for all XCMG earthmoving equipment.

Through this partnership, the company has unlimited access to all XCMG earthmov-XCMG's wide variety of equipment.

So, in addition to its large offering of aerial lift equipment, the company now offers backhoes, compactors, excavators, graders, skid steers and wheel loaders.

With established locations in Burlington and London, Ontario, CanLift also has plans to expand to Northern and Eastern Ontario in the future.

### XCMG and the North American market

in the Yellow Table 2021 ranking of the world's top 50 construction equipment manufacturers—a list released by British publisher, KHL Group.

XCMG the highest-ranking company among Chinese manufacturers.

of the top three construction manufacturing companies in the world makes the CanLift team very proud." says Johnny Dragicevic, Managing Partner at CanLift. of machinery to our customers."

In the last few years, XCMG has been making a push for thorough expansion into the North American market.

In 2019, the company celebrated the export of 100 excavators to North America by holding a ceremony. Employees watched on as a parade of machines were hauled off the factory grounds through a storm of confetti.

"North America market has been known for its high entry threshold and strict requirements. The fact that XCMG excavators can be exported to North America proves the outstanding quality of XCMG products again," stated Liu Jiansen, Vice President of XCMG Machinery, "In seizing a share of American machines." ■

CanLift is a family-owned equipment rental international market, XCMG excavators will, Canadian company that was founded in abiding by a product principle of 'Advanced Technology and Long Duration, win a good In January, the company expanded its reputation for the products made in China world-wide."

Furthermore, in September of 2021, XCMG celebrated its 200,000th excavator and have exclusive rights to sales in Ontario rolling off the assembly line—again reiterating its desire for further international expansion.

"Marking the production and sales of ing machinery, giving customers access to 200,000 units of excavators is a milestone for XCMG and a new starting point," said Wang Min, chairman and CEO of XCMG. "Business in overseas markets will be an important direction for XCMG's future development and we'll expand the layout of excavators and other machinery products as well as full-cycle service in Asia-Pacific, Belt and Road Initiative countries, Africa, the Americas and more, providing better services to customers."

### Last year, XCMG moved into third place Availability in a period of long lead times

Within the North American market. customers are often hesitant to consider products from foreign manufactures that aren't yet well established, even when the An annual revenue of \$15.1 billion makes quality of the machine is comparable, or even superior.

This hesitation often derives from the "Being the exclusive dealership for one thought of long lead times and a lack of parts availability.

> However, this doesn't seem to be the case at CanLift.

"They've recognized what the North "We are thrilled to be able to offer this level American market wants and what it doesn't. It wants componentry that it recognizes and is comfortable with, (these machines) have Yanmar, Kubota and Cummins engines in them, which is what everyone knows in the construction industry, and we're able to bring it at a price point that's really attractive...And above and beyond that, (we've) got availability, which most manufacturers don't right now," explained Geoff Grant, Director of Sales for CanLift.

> Following the announcement of CanLift's agreement with XCMG in January, Johnny said, "XCMG is here for the long haul. So, they're actually putting the components that you would expect to be put in your North









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# John Deere unveils 350 and 380 P-tier mid-sized excavators

the addition of the newly-enhanced 350 P-tier and 380 manufacturer's mid-size **comfort** excavator lineup.

are the first excavator mod-Deere's new "Performance Tiering" strategy.

The 350 P-tier and 380 P-tier support on-demand safety, comfort, and control—all while delivering the power needed to produce at high levels on the job.

According to John Deere, the 350 P-tier and 380 P-tier were designed to deliver exceptional performance, efficiency, comfort and service life in demanding, high-production applications.

### **Grade management**

Both excavators offer SmartGrade technology as a factory option, as well as field upgrade kits. Customers can choose from 2D guidance, 3D guidance, 2D SmartGrade Ready Control and Smart-Grade 3D Control. These grade management options allow customers to choose a level of technology that's right for them with the ability to upgrade as their business grows. Over-dig protection limits the bucket's cutting

target design surface.

These revamped machines visibility around the machines with the option of a els to launch as part of John right, rear and left camera system with LED surround **Easy access and lower** lighting that provides enhanced 270 degree visibility and is integrated into the primary display in the cab.

Also, focusing on operator comfort and productivity, is individually removable, both models come standard and operators or technicians with front LED work lights. have easier access within the Additionally, owner/oper- compartment.

John Deere has announced edge from going below the ators also have the option of a heated air suspension seat, premium leather heated and P-tier excavators to the **Enhancing operator vision**, cooled seat, additional deluxe LED work lights, as well John Deere has improved as cold weather and debris packages for those who tackle jobs in any weather condition.

# operating costs

Outside the cab, both models are equipped with a new, serviceability. Each cooler

In an effort to lower daily operating costs, the machines' fuel economy is up seven percent compared to previous models via electric on-demand cooling fans that reduce engine load, in-line aftertreatment for less restriction and system complexity, along with increased front piping diameter to cut down hydraulic restriction.

"Our goal in enhancing larger hood design and better the 350 P-tier and 380 P-tier is to address the needs of operators by creating a comfortable and technologically advanced machine that can make their job easier," said

Construction & Forestry. "With improved fuel economy and enhanced visibility, these

Justin Steger, solutions mar- machine benefits will provide keting manager, John Deere operators with higher productivity, increased uptime and lower daily operating costs."

■



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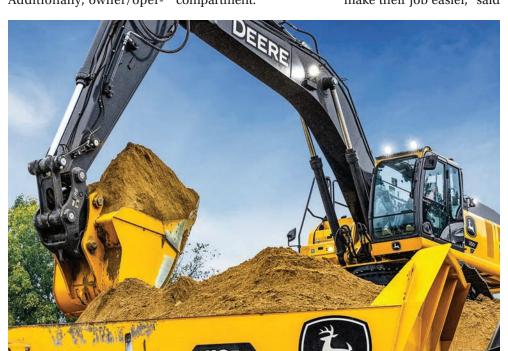
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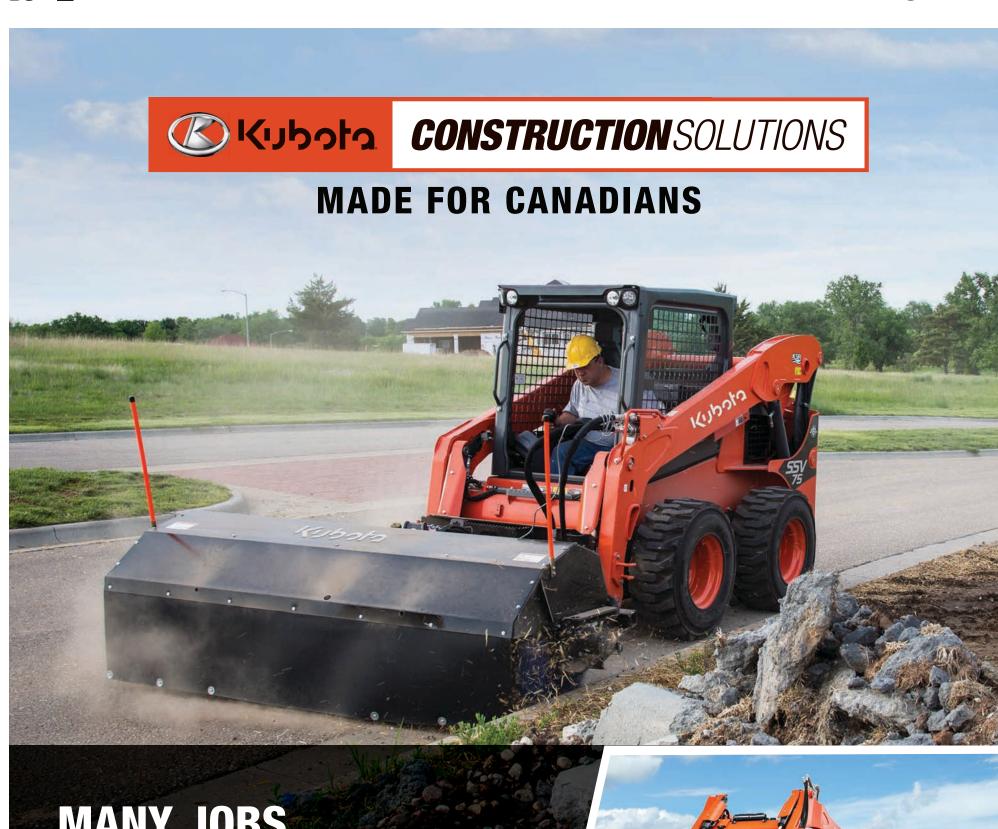
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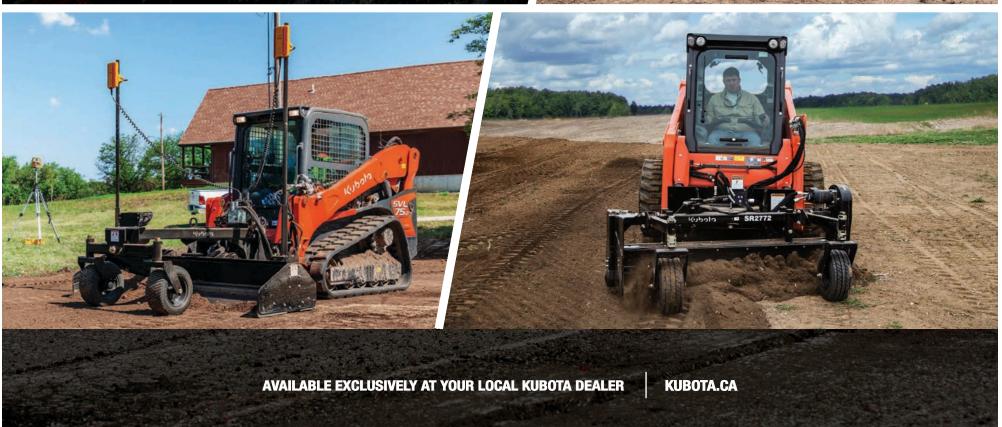




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# **LOOKING BACK AT EXCAVATION**



By HCEA Canada

Pictured here, in 1948, is a Euclid FD Series 20-ton reardump hauler at work on the Des Joachims Dam project on the Ottawa River Ontario/ Quebec border.

The Ontario Hydro-Electric Power Commission had several water-driven generation projects, this one being the largest. It took 2,500 skilled workers to complete the project. With the main dam's length of 732 m. (2,400 ft.) and a height of 58 m.(190 ft.) it created a huge reservoir. However, it did cause relocation in Ohio, had been manuof homes along with 20 km of Ontario's Highway 17 and 38 km of railway tracks when the 11,000 acres was flooded.

For a large dam like this, it needed to be built on solid bedrock. It took drilling & blasting, numerous cable shovels and a fleet of 20 Euclid quarry trucks to excavate the unsuitable rock to finally hit bedrock.

Over the 3-year build period, nearly two million cubic ed, some of which was run through the crusher and sent to the concrete mixer on-site. complete the dam and the et capacity, could be converted Simcoe County Museum.



portion was upwards of \$86 million, in 1950.

facturing equipment since the early 1900s. Always innovators in the earthmoving & heavy equipment field, in the mid-1930s they introduced rear-dump and bottom-dump haulers along with scrapers.

The 'Euc' FD hauler—being powered by a Cummins or hp) range.

With continuing upgrades, meters of rock was excavat- Euclid's FD Series rear-dump County Museum near Barhauler had a production run rie, held in June and the 'Last from 1936 to 1963.

Around 800,000 cubic meters west model 6 cable shovel, of concrete was required to rated as a 1.5 cubic meter buck-

total cost of the construction to crane, dragline or backhoe (pull-shovel) attachments. This model was typically powered The Euclid Company, based by Caterpillar or Murphy six-cylinder diesel engines in the 97 kW (130 hp) range.

HCEA Canada is looking forward to our 2022 events if the pandemic restrictions have been fully lifted. Please check the website for updates: www. hceacanada.org

To see more than 60 restored loaded with shot rock in the pieces of vintage construction photo—would have been equipment in action be sure to attend the Historical Construc-GM Diesel in the 128 kW (170 tion Equipment Association (HCEA Canada) events: 'Wheels & Tracks in Motion' Blast' in October. Both events The ruggedly built North- are held at Simcoe County Museum. HCEA Canada is a proud Heritage Partner of the





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HITACHI ZX135 - one owner, aux hydraulics, pin grabber Q/C, pattern changer, approx. 3,850 hrs. - unit 1865.











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# **Doosan expands -7 series wheel loader** line with three new machines

Doosan Infracore North America is introducing three additional models of its next-generation -7 Series wheel loaders in the United States and Canada.

These new 200 size class machines include many of the same features as the larger models and are now available at Doosan dealerships.

Similar to the -7 Series wheel loaders that were launched in spring 2021, this next generation of Doosan wheel loaders offer all-new redesigned cabs with first-class comfort features, increased bucket capacities and new fuel-saving technologies.

The three new models the DL200-7, DL220-7 and the models launched last year.

capacities between 2.6 and 3.3 cubic yards. All three new models are available with a high-lift option for additional dump height and reach.

"We're excited to offer a -7 Series iteration of our popular 200 size class wheel loaders in Kleingartner, product and dealer marketing manager, our most popular wheel loader models because of their loaders is Situation Aware-

versatility. It's quite common ness Technology (SAT). The for customers with these machines to purchase a hydraulic quick coupler for fast and easy attachment changes."

### New exclusive technology

Each model of the -7 Series wheel loader can be equipped with an optional Transparent DL250-7—are smaller than Bucket, a Doosan-exclusive technology that offers a sup-They have standard bucket plemental view from a monitor inside the cab to improve operator visibility and productivity.

The Transparent Bucket has two cameras with protective guarding, one mounted high and one mounted low on the front of the machine.

"We anticipate that the North America," says Aaron Transparent Bucket will be a popular option for our Doosan -7 Series wheel loaders," Doosan Infracore North Kleingartner says. "Another America. "These are among new technology available in our newest Doosan wheel

technology helps save fuel by automatically adjusting the engine output in real time to the needs of the drivetrain and hydraulics. It lowers fuel consumption without reducing performance."

### Hydrostatic drive

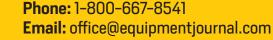
The new Doosan DL200-7 wheel loader features a hydrostatic drive system for enhanced fuel efficiency, machine positional control and reduced wear on the brakes.

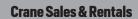
The traction control management system allows operators to easily adjust traction force to match jobsite conditions, which can help reduce wheel slippage.

Doosan DL200-7 operators may choose between Max traction mode, Traction Control mode and S-Mode, which helps in slippery roadway conditions.

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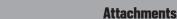






**Trade Shows** 

























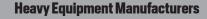


















































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# Kobelco launches next-gen SK210LC-11 excavator

Machinery USA Inc. (KCMU) crease in torque compared to modes: Eco, S and H mode has announced the launch the previous model. of the all new SK210LC-11 machinery.

performance, greater efficiency, more productivity and follows the "Kobelco performance by design" concept for outstanding operator-based performance and comfort.

### **Functional power**

Equipped with a new Tier IV Final Yanmar engine, the new SK210LC-11 delivers 160

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Also, the Kobelco to its lineup of construction SK210LC-11 boasts 32,190 lb of bucket digging force, According to the company, 52,740 lb-ft of swing torque, Boost" add the power needthis machine delivers superior and 51,300 lb of drawbar pulling force.

> Kobelco's "Independent Travel" function dedicates one hydraulic pump to travel and one to the attachment machine's 50,000 lb operating weight leads to increased stability and higher lifting cap-

Also, like most Kobelhp and 577 lb-ft of torque at co heavy excavators, the side panels have been made

for balancing between high performance, economy and low fuel consumption.

"Heavy Lift" and "Power ed for tough conditions and the in-cab hydraulic pressure release function allows customers to change work tools or hoses easily and safely.

The new SK210LC-11 also on a continuous basis. The provides improved durability, with many major components having been redesigned for improved durability and performance.

For example, the machine's

Kobelco Construction 1,500 rpm This is an 18% in- SK210LC-11 has three work thicker to enhance body rigidity, while the increased diameter of the bucket cylinder pin contributes to enhanced durability for using various work tools.

> In terms of machine guidance options, the SK210LC-11 comes with pre-installed mounting brackets for easier system installation without the need to weld and paint. of providers for both 2D and 3D systems.

### Cab technology and operator comfort

As part of Kobelco's "Per-



These brackets are designed formance by Design" concept, to adapt to multiple brands also seen on the SK75/85SR-7 and SK130LC-11, the SK210LC-11's cabin, ergonomics and safety features are greatly enhanced.

> Also, according to Kobelco, these excavators feature best-in-class cabin space and visibility.

> Standard features also include a 7-way adjustable heated air suspension seat that moves together with the armrests and hydraulic controls.

In terms of comfort, Kobelco claims that the design of the cabin reduces operator fatigue, provides excellent shock absorption and offers superior ride comfort.

The operator's pilot levers move horizontally without arching of the wrist, while also providing shorter lever strokes to deliver swift movement.

Also, air conditioning and heater vents are directed towards the operator to maximize comfort.

The right-side jog dial integrates multiple functions into a single interface with the large 10-inch color monitor. The easy-to-operate menu screen facilitates reading of important information including work mode, maintenance intervals and fuel consumption, as well as providing a 270-degree view from the machine's standard three camera system.

The hydraulic flow-rate modes of the bucket, breaker, nibbler, and rotating grapple are also now fully adjustable by the operator through the monitor, and the mode settings for other attachments, such as a tilt rotator, can be easily added or changed.

switches and dials in the warranty with KOMEXS incabin have LED backlight- cluded during the factory ing to provide a bright, clear warranty period. ■

view in the dark. To top it off the cabin is equipped with a FM/AM, AUX, Bluetooth, and hands-free telephone radio, smartphone holder, USB charger, and a 12V power outlet.

### Safety and serviceability

Easy maintenance is assured with a standard radiator clean-out screen that prevents larger material from plugging the radiators and can be easily removed for cleaning.

Also, a newly structured hydraulic oil filter prevents foreign matter from entering the oil tank during maintenance, and all filters are easy to access from ground level.

In terms of safety, a heavy-duty Level II overhead top guard is provided as standard and can be tilted open for easy window cleaning.

Additionally, rear swing flashers and work lights are integrated into the counterweight for added safety. Furthermore, seven LED lights (two on boom, two on top of the cab, one on right side body, two facing rear on counterweight) are now standard to provide additional visibility in low light condi-

### **KOMEXS** and warranty

The machine's operational information, such as hours, fuel consumption and maintenance status, can be obtained remotely through the Kobelco Monitoring Excavator System (KOMEXS).

For added convenience and security, an engine-start alarm, e-fence and current/ past location history are also included.

With the SK210LC-11, Kobelco includes a standard 4 In addition, all internal year/4,000-hourfull machine



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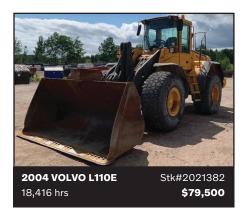
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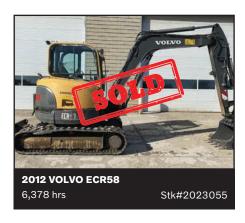
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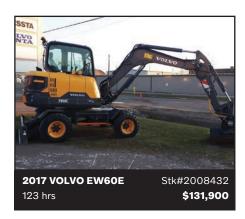




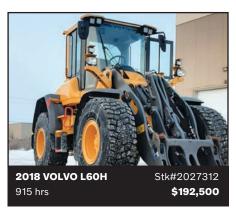
























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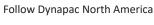


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MARCH 28, 2022 EU

# ROADBUILDING



Wirtgen set to bring its new line of next-generation one-metre class compact milling machines to North America, plans to showcase W 120 Fi model at World of Asphalt in Nashville.

The Wirtgen Group will be showing 11 able balance between milling performance entire road construction process at World of Asphalt in Nashville.

The highlight, the W 120 Fi, will celebrate its world premiere at the event as a reprethree models—the W 100 Fi, W 120 Fi and or "Milling pattern quality." W 130 Fi.

its F-series large milling machines into this new generation of compact milling machines.

of 1.0 m, 1.2 m and 1.3 m. All three are powered by John Deere diesel engine engines, with a rated output of 360 hp/265 kW, that the milling drum speed. are compliant with US Tier 4 Final exhaust gas emission standards.

According to Wirtgen, it has worked with John Deere to precisely tune the torque characteristics of the engine to meet the specific needs of the cold milling process.

As a result, the company claims that machines use significantly less fuel, even when delivering highest productivity and milling to a maximum depth of 330 mm.

Also onboard are the digital assistance systems Mill Assist machine control, Wirtgen Performance Tracker (WPT) and the Level Pro Active levelling system.

According to the company, customers can expect the benefits of the same high performance, efficiency and clear documentation offered in its larger milling machines in the compact machine class.

### Mill Assist for more efficient milling

operating strategy with the most favour-

exhibits representing its solutions for the and operating costs. This increases milling performance and simultaneously reduces fuel, water and pick consumption and CO2

Also, the milling machine operator can sentative of Wirtgen's new generation of pre-select one of three alternative operating compact milling machines that consists of strategies: "ECO," "Performance-optimised"

This makes it possible, for example, to Wirtgen has integrated the technologies of pre-define the required milling pattern quality on a scale from 1 (coarse) to 10 (very fine).

Mill Assist also automatically controls the The three models feature working widths drive system. In conjunction with the diesel engine, a broad spectrum of applications can be realised by reducing or increasing

> The low speed range enables significant reductions in fuel consumption and minimises pick wear.

Furthermore, in the upper speed range, a high-quality milling pattern can be achieved, even in the case of higher area performance

### **Documenting performance and efficiency**

Wirtgen Performance Tracker automatically determines area performance rates, milling volumes and the fuel and water consumption of the machine.

So, the milling machine operator is able to view all important performance and consumption data in the operator's cabin in real time and send an automatically generated report to the machine owner or fleet manager by email immediately after completion of the milling job.

WPT is an optional feature that can also be In automatic mode, Mill Assist selects the retrofitted to already operational compact An easily accessible, ergonomic cabin milling machines.





### A trio suitable for many scenarios

Compact dimensions and optimized machine weight make this trio of machines suited for a multitude of construction site scenarios.

In particular, they are suitable for milling work where space is limited, for example, in city centres or on parking lots.

Also, the ability to quickly change the FCS milling drums with different pick spacings and working widths allows the machines to be rapidly reconfigured on-site to adapt to changing applications.

Wirtgen developed a new cabin and

claims that it can be characterised by comfort, ergonomic control elements and a modern design.

The slim waist of the machines and their five cameras provide an overview of all relevant working areas.

Also, a new 5-inch control screen, set in the armrest, displays all machine-relevant information.

Another solution engineered by Wirtgen is the convenient access point at the rear of the machines that automatically adjusts to the machine's height, offering the operator access to the cabin in all working scenarios.



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# Astec set to showcase all brands under one name

Astec opens an exciting new chapter at the World of Asphalt 2022 as its brands are shown together as OneAS-

Astec brands, including Astec, Roadtec, Heatec, KPI-JCI and Astec Mobile Screens, Peterson-Pacific, and Carlson Paving, will be showcased from March 29-31 in Nashville, Tennessee, USA.

In 2021, the company officially rebranded and combined its subsidiary brands under one name. This restructuring allows the company to simplify business, focus on customers and grow as a con-

one name, Astec aims to continue to serve as a primary resource for all rock and road solutions.



Products include: asphalt mixing facilities, asphalt pavers, CIR machines and recycling solutions.

At World of Asphalt, Astec nected partner in the industry. will display a variety of de-With all the brands under tailed scale models and full-size equipment. This equipment includes:

Astec Self-Erect Storage
 J20 Ranger Jaw Plant

- M-Pack Asphalt Mixing Plant
- RX-505 Cold Planer
- SB-3000 Material Transfer Vehicle
- RP-195 Highway Class Asphalt Paver
- CP130 Commercial Class **Asphalt Paver**





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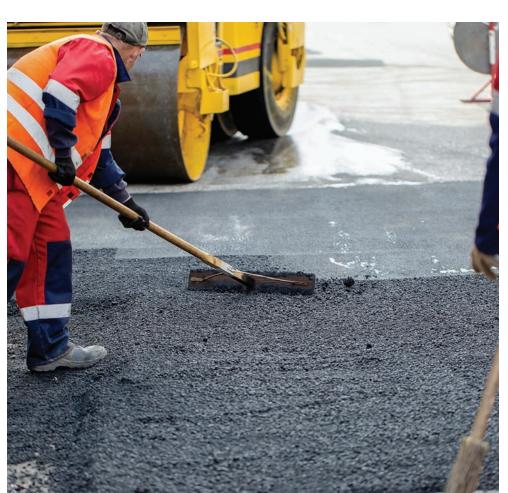
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# **BC's Northstar begins production of** "green asphalt" for road construction

Northstar Clean Technologies clean technology company menting the changes identified Inc. has announced that ithas is demonstrating that its initiated steady state production at its fully constructed asphalt shingle reprocessing to do that, we need to profacility in Delta, British Col-

The Empower Pilot Facility reprocesses discarded single-use asphalt shingles into liquid asphalt, fiber, and aggregate, allowing these products to enter the circular economy while diverting waste from landfills.

The company is now producing "green asphalt" within the exact specifications the company has aimed to produce at the Empower Pilot Facility.

Mr. Aidan Mills, President & CEO and Director of Northstar, states, "One of the critical metrics for any energy transition, ESG-based,

transformational technology actually works. For Northstar duce the end products from our facility at the specification we expected, in a repeatable manner. Therefore, we are very pleased to announce that the **Empower Pilot Facility is not** only producing exactly the end products we planned, but we have also initiated the production plan to do that repeatably."

### **Empower Pilot Facility** operations

The company has initiated steady state production, which is expected to deliver throughput of asphalt shingles in the range of 10-20 tpd up to 4-5 days per week.

Steady state operation will continue at these levels with the objective of demonstrating repeatable production in terms of production safety, quality, and duration (hours per day and days per week).

Most importantly, the two primary output products (liquid asphalt and aggregate) are being produced exactly as designed, meeting the company's end product specifications.

The production of specification products has enabled the company to deliver samples of its "green asphalt" and aggregate to multiple major road construction companies, shingle manufacturers, and other industry stakeholders. These samples are now enabling detailed technical analysis to be carried out by a wide range of the company's potential customers.

Internal testing capability has also been implemented at the Empower Pilot Facility, enabling the development of a quality assurance program for the company's reprocessed products.

through the unit-by-unit commissioning of the company's proprietary BEST process. This commissioning process, combined with the ramp up to steady state production, has provided a clear roadmap for commercial production levels targeted at 50-75 tpd.

Mr. Mills continues, "We are thrilled to have finally entered this critical stage of our company's development, as we now have 'proof of concept" and a viable technology. Critically, this technology is the foundation for our ongoing independent engineering design study for our future scale up facilities. Therefore, this announcement is a major inflection point for the company as it proves to the market that our technology works and validates our business model, as we set out to scale up this technology to a facility size that we can expand with across the North American market."

"Our objective is to maximize the applicability of what we believe is the 'greenest' asphalt in North America," continues Mr. Mills. "In delivering this, we will be in the unique position where our reprocessing of asphalt shingles could not only divert approximately 40,000 tonnes of shingles per annum per facility currently sent to landfill, but these products can be applied in numerous markets. We believe we now have a sustainable, proven solution that can help solve North America's asphalt waste problem."

"I would like to thank our shareholders for their continued support and patience. I would also like to thank all members of our operational team for helping us get to this critical juncture. Our operational team has been working around the clock to achieve this significant milestone for our company. We Since October 2021, the greatly appreciate your efforts," company has been imple- concludes Mr. Mills.

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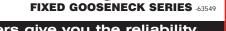














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Aecom Canada Ltd. building in Richmond Hill.

# **AECOM** wins bid to design, assess **Highway 6 South enlargement**

The Ontario government nect communities, create of the John Munro Hamilton will increase lane capacity economies." from two lanes to four over a nine kilometre segment 403 to Upper James Street between Highway 403 and is the primary connection Upper James Street, as part from John Munro Hamilton of the government's plan to International Airport to the build Ontario.

"Our smart, targeted via Highway 403. highway investments, like in Hamilton, will better convital to the continued growth pletion of spring 2024.

has procured AECOM as good-paying jobs and supthe successful engineer- port the needs of a growing ing consultant to under- population," said Caroline take a Preliminary Design Mulroney, Minister of Transand Class Environmental portation. "Four-laning this Assessment (EA) Update corridor will improve the Study for the widening of movement of people and Highway 6 South in the City goods, while serving the of Hamilton. The project national, regional and local

> Highway 6 from Highway Greater Golden Horseshoe

"The widening of Highway widening Highway 6 South 6 from two lanes to four is

International Airport and the surrounding areas," said Donna Skelly, MPP Flamborough-Glanbrook. "This is an important step forward in our work to ensure the safe, efficient movement of people and goods here in Hamilton and across the region."

The Preliminary Design and EA Update Study will include outreach to Indigenous communities, municipalities, and stakeholders including the airport and business owners, and will commence in spring 2022, with a targeted com-

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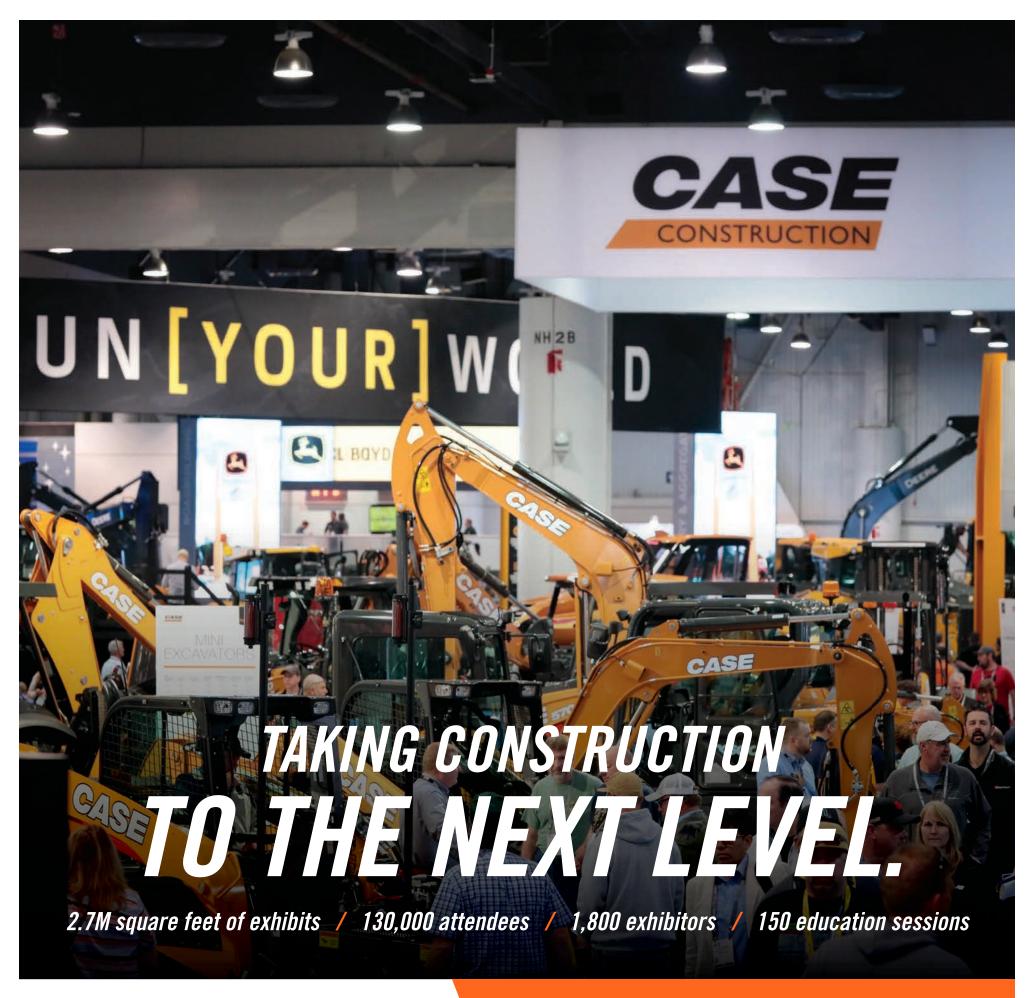
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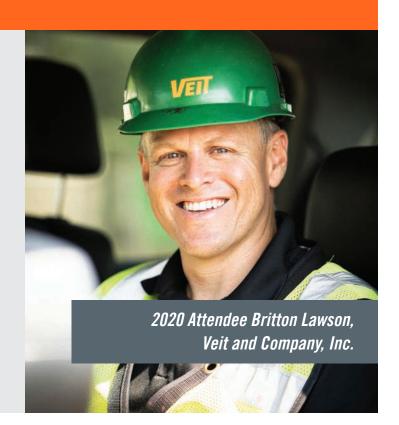




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### @EQUIPJOURNAL

# Ontario puts \$1 million toward Avery Construction's purchase of asphalt plant

support the expansion of projects. Avery Construction Ltd. in

The Ontario government Sault Ste. Marie. This invest- nesses to innovate and MPP for Sault Ste. Marie. full-time jobs." is providing \$1 million ment will help the company through the Northern offer a reliable and more are strengthening our local employment opportunities purchase a portable asphalt Ontario Heritage Fund environmentally friendly Corporation (NOHFC) to source of asphalt for local

expand their operations, we "We are also creating great economy and providing new through this \$1 million in-plant. products and services to vestment that will create

people throughout Northern four full-time jobs and an allow the company to pro-"By helping local busi- Ontario," said Ross Romano, additional twelve seasonal

The funding will be used to

The new equipment will vide a more environmentally sound asphalt for use on local road projects, as well as for paving parking lots, pathways and driveways.

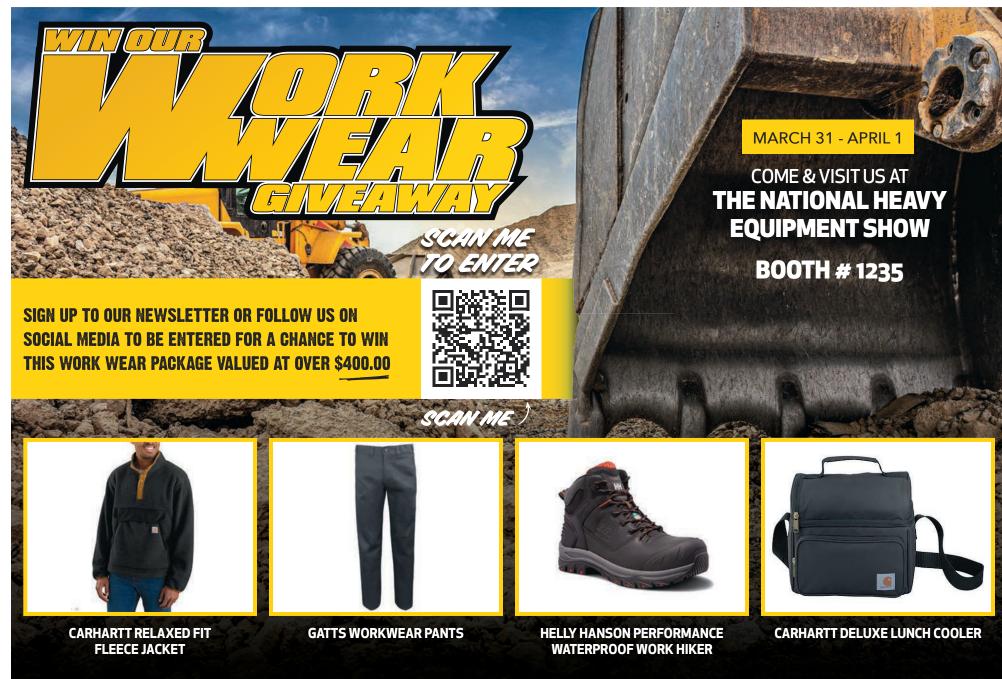
"We are committed to creating and protecting jobs and boosting local economies across Northern Ontario," said Greg Rickford, Minister of Northern Development, Mines, Natural Resources and Forestry. "By investing in companies that innovate and adopt new technologies, we are reinfor-

cing the North's competitive advantage."

"We at Avery Construction are grateful for NOHFC's partnership in seeing this expansion through," said Amanda Williams, Avery Construction. "Welcoming asphalting as another facet of our company was a critical next step for us and has allowed our construction division to become a start-to-finish heavy civil solution. We are pleased that the resulting job creation exceeded our expectations following this investment and we look forward to maximizing the environmentally sustainable capabilities this asphalt plant has to offer."













# Ammann updates design of two articulated heavy tandem rollers

articulated heavy tandem rollers design.

The ARX 90 StV and ARX 110 range of frequencies. StV are powered by engines that meet EU Stage V and US EPA Tier Design 4F emissions requirements.

struction (municipal and town away from the operator. roads, motorways, airfields) and industrial zones).

The rollers all utilise the Deutz their shift. TCD3.6L4 engine.

### **Compaction output**

Ammann recently released two is high and the system is efficient. that enables work in crab mode up for even better visibility.

that meet strict emissions stan- dependent vibratory pump and the differential lock is standard. dards and feature an updated rollers also feature a heavy-duty, 2-stage vibrator with a variable **Operator friendly** 

These machines are designed Applications include medium to be compact and drive vibration and large jobsites, transport con- into the targeted materials and

Also, the design provides visibilbuilding construction (houses and ity and comfort that helps make operators productive throughout **Visibility** 

### Steering and traction

The tandem rollers are easy to According to Ammann, the com- control, with articulated steering

Also, each drum has an in- to 17 cm (6,7 in) on both sides. A

Both the ARX 90 StV and ARX 110 StV feature cabs that are spacious, comfortable and quiet. Operator-friendly features include a unique multifunctional display in the steering wheel, adjustable steering column and control switches on the armrest.

A rotating and sliding seat enables visibility with excellent sight lines to drum surfaces, edges and spraying bars.

paction output of these machines with oscillation and a mechanism seat beyond the machine contour force recognizes if the machine is

### **Telematics readiness**

Every machine is ready for installation of Ammann ServiceLink for monitoring of machine functions, fuel consumption, required service intervals etc.

Also, customers can install telematics solutions from other providers if they prefer.

### Intelligent compaction technologies

ACEforce: The optional ACEforce system puts all information in a simple format on the central display. The system offers advanced functions for effortless and safe machine operation and Also, the operator can slide the compaction guidance. Also, ACE-

experiencing a double jump. If so, the system immediately informs the operator of corrective measures to prevent machine damage.

MARCH 28, 2022 EJ

Oscillation: This motion enables the drums to maintain constant contact throughout compaction. It uses less force but delivers both vertical and horizontal energy-essentially massaging the aggregates into place. Oscillation excels on sensitive jobsites, such as bridges or when working over sewers or utility lines. In addition, oscillating rollers can safely work on mats that are too hot or too cold for traditional compaction methods. Oscillating compactors also seal joints without damaging cold mats.

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1999 Gradall XL4100 - 4,500 miles, A/C Upper, 8.3 Bottom, 5.9 Upper, both Cummins Engines, Owned since 1999. Ownership - can be licensed.



2009 Track Gradall XL 3200 - 2.500 Hrs.



1996 Gradall XL 4100 - Railroad wheels attached.

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# **NEW HIRES & APPOINTMENTS IN THE HEAVY EQUIPMENT INDUSTRY**

# JLG names Daliborka Ribeiro director of telehandler product line

Daliborka (Dali) Ribeiro as the director of product management for JLG would be the right place for her JLG and SkyTrak telehandlers.

In this role, Ribeiro will lead the multi-generation product plan and drive the direction and implementation of its telehandler go-to-market strategy.

Ribeiro and her parents moved from the former Yugoslavia to Chambersburg, Pennsylvania, in 1998 where she completed high school and went on to study at Penn State University, earning a Bachelor's degree in Marketing.

Ribeiro says that she always knew because of her father's long career in JLG manufacturing, his passion

While in her first role at JLG, she continued her studies at Shippensburg University where she earned a Master of Business Administration from the John L. Grove School of Business. Shortly after receiving her MBA, Ribeiro advanced to a parts pricing manager role.

Ribeiro expanded that role to be-After graduation, she followed in come a senior manager of business

JLG Industries, Inc. has announced in 2005 as a parts pricing analyst. ities beyond parts pricing, which two market-leading brands like JLG included coordination with the supply chain, aftermarket parts sales and integrated technology teams.

> With more than 10-years of afterfor the products and the company's market experience and a broad from the field spurs our process understanding of the JLG business and its customers, Ribeiro then advanced to a director of pricing role, where she led the team responsible for both whole goods and aftermarket parts pricing, before moving into her newest role as director of product management for telehandlers.

"JLG has a well-established posher father's footsteps and joined JLG development, acquiring responsibil- Ribeiro. "It's an honor to represent am looking forward to applying concludes Ribeiro."

and SkyTrak and to have the opportunity to talk directly with customers about the current product line and future enhancements. Feedback of customer-inspired innovation."

In her new role, Ribeiro joins Ara Eckel, Bob Begley and Nate Hoover on JLG's product management director team.

"Our team is passionate about understanding job site challenges to *Daliborka (Dali) Ribeiro* develop solutions that drive tangible



value for owners and operators. It's my aftermarket experience and an exciting time to step into my new developing a full lifecycle strategy ition in the telehandler market," says product management role, and I for the telehandler product line,"

# Brendan Nobes elected chair of CCA board of directors

The Canadian Construc- chair, Ray Bassett. tion Association (CCA) has announced that Bren- of major projects for rcs has worked as a site superdan Nobes will be chair of construction, a general conthe board of directors for tracting firm based Atlantic senior project manager and 2022/23, replacing outgoing Canada.

A 35-year veteran of the the owner. Nobes is the director construction industry, Nobes intendent, senior estimator, project manager representing

Working at all levels in construction-from design review and document preparation to scheduling, budgeting, cost forecasting and tender package preparation-Nobes has adopted a "cradle to grave" approach to Brendan Nobes construction management.

The Mount Allison University graduate and Gold Seal Certified project manager contractors' sector. and estimator is active in sev-Documents Committee.

of Nova Scotia. Nobes was Meeting. also the 2017 recipient of the phy for his commitment and made in technology, make

dedication to the industry, our corporate cultures more particularly to the general

"I know the last two eral industry associations. years have tested us all and He is CCA's representative to presented us with great unthe Canadian Construction certainty, but it truly feels like a tide is turning for the better, Also, he is past chair of the said Nobes during his ad-Construction Association dressat CCA's Annual General

"This is the year to cap-CCA Robert Saunders Tro- italize on the advancements

Strongco announces François Simard as Regional VP,

**Construction Equipment, Quebec** 

inclusive, and put Canada on the path to green."

In addition to delivering a refreshed strategic plan, Nobes looks to advance three initiatives during his tenure including expanding CCA's engagement with members, launching new services to elevate best practices in project delivery and strengthening the bonds between CCA and its partner associations.



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Strongco Corporation has Equipment, Quebec.

sales and operations experithe University of Montreal. Officer for Strongco

Also, he has a certifi-International Development province of Quebec.

"Working together in announced that François the interim with Stephen Simard has accepted the George, our Eastern Reposition of Regional Vice gion Vice President for our President, Construction Construction Equipment Division, who has diligent-François has sever- ly structured our Quebec al years of management, and Atlantic operations, we believe that François will ence working in the heavy be a significant asset in the equipment industry and future growth of Strongco," has a university degree in says Oliver Nachevski, Presiindustrial relations from dent and Chief Executive

François Simard will be cate in health and safety, situated Strongco's Laval experience as a human branch, overseeing operresources advisor and is a ations in the Construction volunteer for the Canadian Equipment Division for the



François Simard

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**2019 HITACHI ZX225 USLC-6** 2900 HOURS, Q/C, AUX. HYD.



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2020 DEERE 245G LC 600 HOURS 9'6" STICK, 2019 VOLVO ECR355EL 34" PADS 10' STICK, 2017 CAT 320FL - 2700 HRS, NEW Q/C, L/S, 2017 CAT 313FL 1353 HRS, A/C, AUX. HYD., Q/C, HYD. THUMB. .. FOR RENT



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