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CONSTRUCTION • PUBLIC WORKS • NATURAL RESOURCES

Volume 27 • Number 10 • November 2022 • *English Edition*





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A Brief Word...

November, that pivotal month when we can no longer deny the approach of winter. It is a busy time of year with everything from fireworks, time travel, and mass melancholia to divert our attention.

Alas, the drawing out of the darkness brings a quickening to the pace of every task. With the dark comes the cold and then the chilling slide from rain to snow.

As you struggle to tick off one more task and gather your wintery tools InfraStructures is a beacon in the darkness.

We'll have more news from Bauma, as attendees return and share their adventures. This edition will also be full of related news and events, including a calendar for the coming months to help you plan your own travels. Don't forget we are also with you online with even more features and content.

As it is November, please take a moment to acknowledge those who sacrificed their lives to make our society possible.

I need to check the naughty list for Santa now.

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On the cover: a SANY SY75C excavator at work at the base of Mont-Sainte-Anne, in Quebec, near where Mécanique J. Clair, a distributor of the SANY product line, is located.

This compact excavator, agile and reliable, is depicted during the execution of landscaping work.

WESTLAND AND ARA PARTNER TO OFFER CANADIAN ARA MEMBERS COMMERCIAL INSURANCE PACKAGE

Westland Insurance Group and the American Rental Association (ARA) recently announced an exclusive partnership to deliver insurance solutions to ARA members across Canada.

Westland and ARA offer a commercial insurance package that includes liability, property (building, stock, and equipment),

contractors' equipment that is rented or sold and cyber insurance.

"Westland is excited to work with ARA to bring this comprehensive commercial insurance package to Canadian ARA members," said Donna Barclay, executive vice president, Commercial and Specialty at Westland Insurance. "Our exclusive partnership means Canadian ARA members now have access to uniquely specialized insurance protection to complement

education, business resources, news, and research insights designed for the equipment and event rental industry.

"We're really happy to have found a partner like Westland Insurance that will set our Canadian members up for success. Westland understands the complexities of rental and why insurance is so crucial to business operations. We're excited to work with them and serve our members in all provinces," said Tony Conant, ARA CEO.

This package is now available to ARA members across Canada and more information can be found on the ARA website. Source: American Rental Association

INNOVATIVE AR SOLUTION FOR TRAINING OPERATORS OF SPECIALIST FOUNDATION ENGINEERING EQUIPMENT

Safety is an immensely important issue on construction sites. It is of crucial importance that equipment operators are well trained and able to safely control their machines. But events like the COVID-19 pandemic have demonstrated that it is not always possible to conduct training for equipment operators in person. The topic of sustainability and the question of which business trips are avoidable also plays an increasingly important role. Based on these considerations, the BAUER Training Center GmbH developed the "Next Level Operator" application together with Usaneers GmbH.

"The training solution was designed for specialist foundation engineering equipment, but can easily be applied to other site areas and equipment," explained Jerobeam Rückert, managing director of BAUER Training Center GmbH.

There are 2 training options for the construction sector. The only prerequisites are a stable internet connection and augmented reality (AR) glasses with the corresponding software.

For option 1, the trainee wears the AR glasses and the trainer is connected virtually from anywhere in the world, providing live guidance in the application. In this way, the trainee is presented with a work-site under real conditions, but also receives the necessary support to manage the task as well as the required theory. The visual

field of the glasses is transmitted in a web application and enables the trainer to interact via video and audio from any location. The versatile tools of the AR application make it possible to highlight objects in the working environment, display images, videos or technical documents in the visual field or also work together on the shared screen. The entire time, the trainee has his or her hands free to carry out the required activities.

For option 2, the trainer wears the

glasses and is on the equipment or on the site. The trainee follows the activity remotely. This option is particularly suited for groups, as multiple participants can follow the training from their own end device or together in the training center.

In general, this digital training solution offers numerous advantages:

First of all, an enormous gain in safety on the site due to regular training.

Second, a better utilization of the equipment's technical possibilities, and more

efficient operation in consequence. This is associated with lower downtimes, as damages can be prevented through better equipment knowledge.

Third, training can be individually adapted to the knowledge level of the individual equipment operator. And last but not least, the trainer does not need to be on site. Particularly when a variety of sites are involved, trainers can therefore support a far larger number of colleagues. This saves travel costs for all parties and

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"The Next Level Operator Training opens up entirely new options in training and development for us and our customers," said Mr. Rückert. "We are proud that we have made it to the finalists' round for this year's Bauma Innovation Award with this future-oriented technology."

Source: BAUER Group

CHEVRON & CALBIO EXPAND PARTNERSHIP ON DAIRY BIOMETHANE FUEL PROJECTS

Chevron U.S.A. Inc., a subsidiary of Chevron Corporation, and California Bioenergy LLC (CalBio) announced a joint investment in their second holding company to produce and market dairy biomethane as a renewable natural gas (RNG) transportation fuel in California. At signing, the holding company, CalBioGas Hilmar LLC, secured initial funding from Chevron to build infrastructure for dairy biomethane projects in California's Merced County.

Manure storage on dairy farms results in the release of methane, a highly potent greenhouse gas. CalBio brings technology and operational experience to help dairy

farmers build digesters and methane capture projects to convert this methane to a beneficial use as renewable natural gas, which is considered carbon negative on a lifecycle basis under California's Low Carbon Fuel Standard. Per the agreement, Chevron will provide additional funding for as many as 7 digesters and 1 central upgrading facility across a cluster of dairy farms in Merced County.

The cluster of digesters has been awarded California Department of Food and Agriculture grants, which must be augmented with additional capital to complete the projects. When complete – expected in 2023 – Chevron will take 100% of the renewable natural gas produced to market in the California vehicle fuels market.

"This project brings together support from many groups, including 7 California Dairy farmers, who are national leaders in milk and cheese production; Chevron, one of California's largest energy companies; and grant funding from the California Department of Food and Agriculture. The strong support from these partners will help California with its emission reduc-

tion targets," said Neil Black, president of CalBio. "These projects are also benefiting the local community through job creation and protecting local air and water quality."

As part of its lower carbon objectives, Chevron is complementing the strength of its traditional products business with new offerings that help customers support a lower carbon future. Carbon negative renewable natural gas produced from dairy biomethane is an essential part of its portfolio of solutions.

"We are excited to continue our partnership with CalBio and work with local communities and farmers to develop lower carbon fuel solutions," said Andy Walz, president of Americas Fuels & Lubricants for Chevron. "The investment underscores our commitment to produce 40,000 MMBTU/D of RNG by 2030 and grow the lower carbon businesses that we believe will be a bigger part of the future."

Source: Chevron Corporation

ENVIRONMENTAL 360 SOLUTIONS ORDERS MACK LR® ELECTRIC TRUCK

Environmental 360 Solutions (E360S), headquartered in Aurora, Ontario, recently ordered a Mack LR® Electric model to help the company achieve its environmental and sustainability goals. The Mack LR Electric will operate in a residential area in either Quebec or British Columbia and will feature an automated side loader from Labrie.

"Mack is pleased that E360S opted to make its first electric refuse vehicle purchase a Mack LR Electric model," said Jonathan Randall, Mack Trucks senior vice president of Sales and Commercial Operations. "As the industry continues to move toward electrification, Mack has an ongoing commitment to fulfill customers' sustainability goals, as well as Mack's goal of having 35% of its sales be for electric vehicles by 2030."

Founded in 2018 by Donato Ardellini, E360S is dedicated to becoming North America's leading environmental management company. E360S provides environmental and waste management solutions to municipalities, industrial commercial and institutional customers. The company operates in Alberta, Ontario, Quebec and British Columbia.

"E360S currently has more than 170 refuse vehicles and wanted to add an electric vehicle to its fleet. The company began

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researching, and Mack was its top choice," said Gio Procaccini, E360S director of Fleet and Branding.

Source: Mack Trucks

EXPRESSWAY TRUCKS BECOMES FIRST VOLVO TRUCKS CERTIFIED EV DEALER IN ONTARIO

Volvo Trucks North America has recently designated Expressway Trucks as a Volvo Trucks Certified Electric Vehicle (EV) Dealer, signifying that it is ready to support customers interested in adding Volvo VNR Electrics to their local and regional distribu-

tion, pickup and delivery, and food and beverage distribution routes. The dealership's Waterloo location is the first to be certified in Ontario, and is ideally located near Highway 401, one of the busiest traffic corridors in the country.

"Expressway Trucks continues to be an outstanding dealer partner and is taking a leadership role to expand Volvo VNR Electric deployments in Canada," said Peter Voorhoeve, president, Volvo Trucks North America. "We have had great success running Volvo VNR Electrics in the cold Canadian winters in the Quebec region,

providing a proof point to other Canadian fleets that battery-electric trucks perform well in extreme temperatures."

Expressway has locations in Ayr and Owen Sound. Given its role in growing Volvo Trucks' market share and delivering superior customer service, it has been named the *Volvo Dealer of the Year Award* 3 different times (2010, 2012, and 2014).

Two of Expressway Trucks' technicians have completed the training to safely perform battery-electric truck maintenance and repairs for trucks in operations. To provide comprehensive coverage support and get customers back on the road quickly, the technicians work on separate shifts. In addition, the dealership maintains a stock of key parts and components for the VNR Electric model and has installed 50 kW Heliox chargers to support battery-electric trucks.

Source: Volvo Trucks North America

EPIROC COMPLETES ACQUISITION OF AUSTRALIAN PROVIDER OF DIGITAL CORE IMAGING SOLUTIONS FOR MINING COMPANIES

Epiroc recently announced it has completed the acquisition of Geoscan Pty Ltd, an Australian provider of digital geological imaging solutions to mining companies.

Geoscan is based in Perth, Australia, and has presence in Australia, Latin America, North America, Europe, and Africa. Its main offerings are Corescan and Coreshed.

Corescan is a leader in hyperspectral scanning, core photography and 3D laser profiling of drill core, rock chips and other geological samples with the associated processing and interpretation. Corescan offers an automated solution that increases both the speed and reliability of imaging, processing and data delivery. Providing a rapid and reliable mineralogical profile of each drill core, Corescan improves the mining companies' decision making across exploration, resource modelling and ore processing.

Coreshed complements this by providing an advanced digital core storage, visualization, management and data integration solution for drill core and other geological samples.

Geoscan has about 50 employees and had revenues in 2021 of about AU\$9 million (\$7.8 million). The transaction is not subject to a disclosure obligation pursuant to the EU Market Abuse Regulation.

Source: Epiroc

Face Winter With RIDEMAX IT 697 (M+S) by BKT

BKT has developed specific tires to face the winter season. Solutions designed not only to deal with muddy or snowy surfaces, but also to provide maximum performance in normal conditions on dry soil, satisfying the different technical requirements depending on the surface and conditions of use. Both the tread and the compound have been designed to maintain the characteristics of the tire even at low temperatures and to provide traction and grip on wet, snowy or slippery terrain.

RIDEMAX IT 697 (M+S) is the perfect solution to operate in the harsh conditions typical of winter. This is the BKT radial tire for tractors, designed to provide maximum performance both on muddy and snowy surfaces, and on dry soils, thus adapting to the different needs of modern subcontractors and farmers.

Thanks to the tread incisions and the special compound developed to maintain the characteristics of the tire even at the coldest temperatures, RIDEMAX IT 697



(M+S) guarantees traction and grip on wet and slippery terrain, also ensuring driving comfort and stability. It also guarantees an extraordinary grip for all operations on icy and snowy roads, without any need for snow chains.

This winter tire is designed to ensure a longer product life cycle than equivalent solutions: BKT tests show that RIDEMAX IT 697 (M+S) can support over 4,000 working hours, compared to 3,000 hours for a

standard tire on the rear axle.

RIDEMAX IT 697 (M+S) is part of BKT's RIDEMAX range designed for transport operations with tractors and trailers, in both agriculture and industry. This range has been developed to be stable also at high speeds, to support heavy loads in order to reduce transport cycles, and to contain rolling resistance, thus consuming less fuel.

Source: Balkrishna Industries Ltd. (BKT)

Bauma Innovation Award 2022



For the 13th time, numerous companies and institutes from Germany and abroad competed for the award in 5 categories at the world's leading trade fair Bauma in Munich. After a multi-stage selection process, the lucky winners were able to receive their prizes on Sunday, October 23, in the Max Joseph Hall of the Munich Residence.

They are in the following categories:

- climate protection: Liebherr France SAS with its hydrogen-powered excavator,
- digitalization: MiC 4.0 Machines in Construction with one common digital language for construction sites,
- mechanical engineering: Herrenknecht AG with its continuous advance,
- construction: Holcim (Germany) GmbH with CPC – Carbon Pre-stressed Concrete,
- research: Freiberg University of Mining and Technology Mechanical Engineering Institute with Deep Sea Sampling.

A total of 133 entries were received, of which 41 finalists made it to the next round. In 2 rounds of voting, the expert jury and task force chose their favorites. The trade journalists attending the Bauma Media Dialog in Munich also had the opportunity to cast their vote in the final round.

The competition is a joint project under the auspices of the Verband Deutscher Maschinen-und Anlagenbau (VDMA) Construction – Equipment and Plant Engineering, Messe München, the Federation of the German Construction Industry (HDB), the German Construction Confederation (ZDB) and the German Building Materials Association (bbs).

The VDMA (Mechanical Engineering Industry Association) represents about 3,500 German and European companies of the mechanical engineering industry.

Source: Verband Deutscher Maschinen-und Anlagenbau (VDMA)

Mitas Introduces New Size GRIP'N'RIDE Tire for Construction Industry

Mitas expands its GRIP'N'RIDE construction tire range with a new, larger size tire for wheeled and backhoe loaders. The new 21L - 24 IND tire is designed for improved performance even on softer terrain and features strengthened sidewalls for greater durability when handling increased load capacity, a special tread pattern that delivers increased grip, and self-cleaning properties.

The new GRIP'N'RIDE construction tire is larger than the existing 19.5L - 24 IND tire and delivers almost 1,000 kilograms greater load capacity when stationary, and 400 kilograms greater load capacity at a speed of 40 kilometers per hour. When compared to other construction tires, both GRIP'N'RIDE tires in this range have a reduced height to width ratio and corresponding profile number.

"Initial production of this new tire will serve the extensive North American market, where it is in high demand. This is due to the high number of backhoe loaders in use, which require wider tires and greater load capacities. Shortly thereafter, we will roll out the new 21L - 24 IND tire for customers globally,"

said Marcello Mantovani, Product Manager for Construction tires at Trelleborg Wheel Systems.

Backhoe loaders have a front shovel for earth moving and a hydraulic arm with a backhoe in the rear. This makes them universal machines on many construction sites, especially road and path construction. The entire GRIP'N'RIDE range are designed specifically for the rear axles of construction machines.

Source: Mitas



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Giving Gravel a Second Life



Concrete is the most widely used construction material in the world. However, it is not sustainable – unless recycled materials are used for its production. In the Rathausviertel district of Kirchheim bei München, in Germany, excavated gravel was generated by the truckload during the construction of excavation pits for a new residential quarter – to be built by DIBAG Industriebau AG, one of the leading German project development companies – which is now being reused for concrete production. In this way, the Bauer Umwelt Division of BAUER Resources GmbH is unearthing a new treasure that not only makes a sustainable contribution to a clean environment, but also embraces the philosophy of a circular economy.

Before the valuable resource could be excavated, the site boundaries were positioned, access routes created and storage areas were prepared for the excavated material. Then the planning for the excavation pit was drawn up.

Next came the gradual excavation of the 3 excavation pits up to a depth of 3 m. In the process, a total of 38,000 m³ of material was removed and disposed of. The 33,000 m³ of gravel generated here was loaded directly, transported to a nearby gravel plant and treated there so it can be processed into concrete. In comparison, the CO₂ emissions and consumption of resources for the production of conventional concrete are immense.

In Germany alone, approximately 27.5 million t of concrete are produced each year. If just a small portion of this were produced from recycled gravel, concrete manufacturing would be a whole lot more sustainable. Natural raw materials would be conserved and excavated materials would not have to be disposed of.

Finally, the team from the Bauer Umwelt Division will construct the capping layer and install a king post wall deep in the ground to secure the excavation pit. Once this work is finished, a modern residential quarter with 138 apartments and 28 townhouses should enrich the community of Kirchheim bei München in early 2024.

Source: BAUER Group



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R&D Crane Delivers Major Toronto Bridge

Cherubini Bridges and Structures has completed work on the Four Signature Bridges contract for Toronto's Port Lands project. The job wrapped up in style with the company successfully orchestrating a complex 4-crane pick to get the final 446.6 t segment of the bridge sent up the St. Lawrence River by barge.

The lift of the 22.3 m-wide, 57.1 m-long Cherry Street North Bridge was performed by R&D Crane, a division of Cherubini Group. It was completed using the 4 largest cranes in its fleet: a Manitowoc Model 16000 lattice-boom crawler, and Grove GMK6400, GMK5250L, and GMK5240 all-terrain models.

The cranes combined to lift the structure from its supports in the yard in Dartmouth, Nova Scotia, allowing a self-propelled modular transporter (SPMT) with transfer beams and a huge Cherubini-engineered turntable to take the load.

The need to bring together the 4 cranes was an engineering solution to help ensure



the bridge was positioned as smoothly as possible at its final resting place.

"There were space restrictions which meant we couldn't just simply roll on and roll off the barge using the self-propelled transporters alone. Because of this, we engineered a solution that supplied the sections to the jobsite on a turntable structure – our giant 'Lazy Susan', explained Darren Czech, Cherubini Group CEO. "This

allowed tugboats in Toronto to spin them around on the barge in the middle of the harbor, ideally positioning them to slot right into their final resting place. So, we used the 4-crane pick at our yard to make sure the section was accurately placed on the turntable ahead of shipping to Toronto."

Source: The Manitowoc Company, Inc.

FAUN Acquires Trombia Technologies

FAUN Group from Germany took a majority interest in Finnish manufacturer Trombia Technologies Oy, effective on October 1st, 2022.

With Trombia, FAUN extends its product range with the world's first full-power, electric and autonomous street sweeper system Trombia Free. The goal is to enable the electrification of an entire industry and significant emission reductions with its patented technology.

"Together, FAUN and Trombia will accelerate the company's transition to series deliveries and production of the autonomous street sweeper systems. By bundling our competencies, we are taking a major step towards a sustainable and secure future. I thank the management of Trombia for their trust and look forward to working together," said Patrick Hermanspann, CEO FAUN Group.

The patented Trombia cleaning technology that removes heavy debris, street and industrial dust without using water and with a lower power consumption compared to its competitors. The company



launched the Trombia Free sweeping systems in 2020. Trombia is also Scandinavia's technology leader in hydraulic snow removal and sweeper attachments.

Along with the ownership transaction, Trombia Technologies also confirmed €6 million (\$8.1 million) growth financing arranged by FAUN to accelerate company's transition to series deliveries and production of the autonomous street sweeper

systems.

"With Trombia Free, we set our goal to be the world's largest sweeping machine manufacturer of the green transition by 2029. Now we are taking a long-prepared step along this path together with FAUN," said Antti Nikkanen from Trombia Technologies.

Source: FAUN Group

Perstorp Strengthens the Portfolio With Isononanoic Acid

Perstorp expands its value proposition for its selected segments Engineered Fluids and Resins & Coatings with the addition of Isononanoic Acid to its portfolio.

Isononanoic Acid is a critical carboxylic acid used in polyol ester synthetic lubricants, as corrosion inhibitor in coolants, and also in alkyd resins and paint driers. With this new launch, Perstorp will provide additional supply especially for applications where Isononanoic Acid contributes with unique and critical properties. Highlighted benefits are consistent high quality and purity for advanced performance formulation. Its unique branched structure provides both stability and compatibility with today's and next generation refrigerant gases.

"The introduction of Isononanoic Acid is a natural step for us to provide a complete portfolio of high quality building blocks to our engineered fluids as well as resins and coatings customers. During the pre-marketing trials done by customers, the



high quality and the minimal alterations to formulations has been confirmed. We are happy to expand our position further to be able to serve a strong demand from the market," said Patrice Pinsard, executive vice president Strategic Markets & Innovation.

"Isononanoic Acid has proven to pave the way for next generation lubricants compatible with non-ozone depleting

and low to no global warming potential refrigeration gases. Together with other essential polyols and carboxylic acids, Perstorp offers a complete portfolio to support the cooling industry continuously moving forward to sustainability," explained Volkan Goren, vice president Engineered Fluids.

Source: Perstorp Holding AB

Felling Trailers' Pan "Gravity" Tilt Trailers Receive Design Modifications

The Felling Trailers' drop-deck Pan Tilt model has undergone design modifications to increase operator ease of use and safety. The Pan Tilt is a gravity tilt trailer, using gravity and a center pivot point for tilting the trailer bed. Felling's Engineering team recently reviewed the Pan Tilt's design looking for ways to improve operator ease of use along with production efficiencies. Modifications have been made to the Pan Tilt's locking mechanism, lighting, license plate mount position, and location.



The tilt locking mechanism is the most notable of the modifications improving the production process, flexibility to function with optional features, and most importantly, operator ease of use. The previous locking mechanism was a purchased part

that required modification and multiple latches dependent upon a trailer build's selected features, power up/down, or a toolbox, as it was mounted on the front of the trailer.

"The goal was not to have a longer hitch length if they (the end-user) optioned cylinders (power up/down) or an extra latch for a toolbox, making the base design more modular, streamlining the manufacturing process," said Felling Trailers' Engineering Team lead, Cathy Voge.

The new locking mechanism is located on the front roadside of the trailer, operating as a lever that releases a lock bar under the front deck frame. All the components for this locking system are sourced internally, improving fit and function.

Modifications completed with an emphasis on production efficiencies were lighting and the license plate mount. Lighting modifications reduced the number of weld components needed, replacing the front marker lights and mounting plate with bullet lights that mount into the hitch channel. The bullet light mounted into the hitch channel also provides better wiring protection. The license plate mount on the pan tilts is utilized across other Felling tilt deck lines. This style mount prominently displays the license plate without obstruction from the taillights or cargo being transported, promoting operator and towing safety.

Source: Felling Trailers, Inc.

Gasoline Replacement Fuel Tank System for 2020-22 Ford Super Duty



Transfer Flow recently introduced a gasoline high-capacity replacement fuel tank for 2020-22 Ford F-250 and F-350 Super Duty short bed, crew cab pick-ups with 6.2 l and 7.3 l engines. The 220-l fuel tank system passed extensive emissions testing and has been granted an Executive Order from the California Air Resources Board (CARB).

The larger fuel tank increases the truck's driving range, allowing the driver to bypass more expensive fuel stations and fill up where gas is cheaper. It also reduces the need to refuel the truck as often. The reduced number of refueling events translates to fewer fugitive emissions, making Transfer Flow's fuel tank an environmentally friendly choice for customers who choose gasoline-powered vehicles.

The fuel tank is made from American-made 12-gauge aluminized steel for superior strength and corrosion resistance and includes exterior fuel lines and a highly engineered evaporative emission system. Each fuel tank is equipped with internal baffles for additional durability and to reduce fuel slosh. This system has a complete installation kit, including straps and mounting hardware, to get the heavy-duty tank mounted and ready for the road. The fuel tank comes with a 6-year, unlimited mileage warranty.

Source: Transfer Flow



Eco-Friendly Air Suspension Wheel Replaces Rubber Tires

For centuries, inventors and entrepreneurs have tried to reinvent the wheel, but an engineering company out of Phoenix, Arizona, Global Air Cylinder Wheels (GACW), just may have pulled it off by creating its unique wheel technology, the Air Suspension Wheel (ASW), offering an



eco-friendly, cost-effective, stronger, and safer alternative to the highly pollutive traditional rubber tire.

Think of it as a wheel where the steel meets the road. The ASW is a patented

airless mechanical design constructed primarily of steel with in-wheel suspension.

The ASW combines an inner steel hub with an outer steel drum which is connected by 8 to 12 nitrogen-filled air cylinders and 4 to 6 oil-filled dampers that provide suspension.

On the outer drum, individually bolt-on steel or polyurethane treads are fitted. These individual treads can be replaced

without removing the wheel, a time-consuming process that takes up to 8 hours with OTR rubber tires.

"The ASW is so much more than just another wheel," said Dr. Zoltan Kemeny, president and CEO of Global Air Cylinder Wheels. "As opposed to the traditional pneumatic tire providing suspension outside the rim, the ASW suspension is located inside the wheel. Essentially, our wheels become part of the vehicle's overall suspension system. Our wheels are an effective and viable option to rubber tires. They are cost-efficient, safer, and are better for the environment, and for those industries that rely heavily on tires."

GAWC's wheel technology has been tested in real-world conditions, and the company has been developing the ASW for OTR mining vehicles since 2015.

Rubber tires are expensive and account for the mining industry's largest expense after payroll. Rapid wear and tear caused by impacts, rock cuts, and extreme and uneven loading mean the lifespan of an expensive mining tire is short.

By contrast, the ASW is durable and designed to have the same lifespan as the vehicle itself, (approximately 10-15 years), meaning fewer replacement costs and less time spent swapping out damaged tires. Unlike rubber tires, the ASW can be leased, with a 15% residual value after 10 years of service.

Source: Global Air Cylinder Wheels

New Flex-Wing Low HP Cutter Cuts Grass, Weeds and Brush up to 5 cm

IronCraft, LLC, formerly branded Titan Implement, recently introduced the 2512 Series Flex-Wing Cutter which requires just 35 hp at the PTO and one hydraulic outlet to cut grass, weeds, and light brush up to 5 cm in diameter.

Several new features have been added that make this unit easier for dealers to sell and serve their customers at the point of sale and for years to come, including a smooth top deck, spring suspension, and 3.6 m working width. This robust cutter makes compact tractors more productive than ever.

The wings flex from 22° down to 87° up (22° down and 45° up wing free float), allowing it to tame slopes, gullies, ditches, and other tough topography. A 75 hp outboard gearbox rating and 5-year limited warranty attest to its stout design and durability. The 2512 series has a cutting height range from 3.8 to 30.5 cm, making it ideal for cutting grass, weeds, and light brush on farms, in parks and recreational areas, on community green spaces, along roadsides, and more.

Source: IronCraft LLC



SVAB Launches a New Control System With an Open Interface for Tiltrotators

With the new Open Connect™ control system, SVAB wants to facilitate installations and support of tiltrotators, and at the same time make it easier for new markets and machine owners to take advantage of the benefits of a tiltrotator.

Open Connect™ is designed for machine manufacturers and dealers who want to be able to offer a standardized control system, and at the same time allow end-customers to choose a preferred tiltrotator brand.

Open Connect™ is a complete solution consisting of joystick grips, display, electronics and software that controls the hydraulics of the tiltrotator from the machine. The system has a new open interface that communicates with the tiltrotator's own module, which in turn controls the hydraulics in the tiltrotator.

The new open interface will be compatible with the MiC 4.0 Bus, which is being developed within the German industry organization VDMA and the working group

where SVAB together with the machine manufacturers Volvo, Liebherr and Wacker Neuson and the major tiltrotator manufacturers agree on a common protocol.

SVAB is also launching a new electronics module which can be connected between the CAN-bus joystick grips and the control system. The new module makes it possible to use the same joystick grips for other functions in the machine that are not controlled via the tiltrotator control system. This is made possible by the fact that the module can be easily configured to convert desired CAN-bus signals into several different commonly occurring signal types and functions. It could be, for example, that you want to use a button to navigate your GPS machine control system or a thumb roller to control some original function of



the machine.

In addition to control of the tiltrotator, the system can also be equipped with functions such as wireless tool recognition, sharing of the tiltrotator's sensor data to machine control systems, automatic tilt control and wheel or track control.

For fine-tuning of hydraulic settings, troubleshooting and for software updates, there is a user-friendly service tool developed for tablets.

Source: SVAB Hydraulik AB (SVAB)

The World's First Hooklift Made From Fossil-Free Steel

Hiab, part of Cargotec, showed the world's first hooklift made from fossil-free steel at IAA Transportation in Hannover, Germany, last September. On display inside Hiab's Pavilion was a MULTILIFT Ultima hooklift made with a majority of the first available fossil-free steel, from SSAB.

In 2026, SSAB aims to have fossil-free steel commercially available. This will enable Hiab to start producing load handling equipment made from material with lower carbon emission. Cargotec and SSAB have agreed to work on the introduction of fossil-free steel to the load handling industry in a strategic partnership. In the test production of fossil-free steel delivered to Hiab, SSAB used Hybrit technology to make steel with hydrogen instead of coal, eliminating the majority of the CO2 emissions in the steelmaking process.

Steel production accounts for 7% of the global CO2 emissions and is Hiab's single biggest contributor to the carbon footprint when producing load handling equip-



ment like MULTILIFT hooklifts. The global average for production of iron-ore-based steel is 2 t CO2 emissions per tonne of steel produced, compared with virtually zero for the production of fossil-free steel using fossil-free electricity.

"The use of SSAB's fossil-free steel in our products will pave the way to reducing the carbon footprint of our industry. The target to halve our CO2 value chain emissions is ambitious but at the same time a

business opportunity where we can help our customers to achieve their sustainability agendas. It is with great pride that we can present this MULTILIFT hooklift, which is the first of many load handling equipment units to be made from fossil-free steel," said Pauliina Kunvik, senior vice president Demountables, Forestry & Recycling Cranes, Hiab.

Source: Cargotec

Is a Snowblower or a Snowplow the Right Choice for You?



It is that time of year again in Canada, where properties, construction sites and more are already covered with snow. Whether it is clearing a driveway, a path, or a commercial parking lot, there are a few "do it yourself" options to clear a property, the most popular of which are

using a snowplow or snowblower. There are advantages to using either, but your choice will depend on your situation and the landscape you are operating on.

BLOWERS OR BLADES?

As you know, a snowblower uses a rotat-

ing auger and impeller to shoot the snow and propel it in any direction, meaning operators have good visibility while operating the equipment and are much less likely to mistakenly damage property land or hardscape. Snowblowers come in a variety of sizes and are the usual go-to for smaller

projects – like sidewalks and driveways – where an operator can distribute the snow at a distance or to a place it in the near proximity. A blower's ease-of-use makes it easier to distribute the snow more evenly across the property landscape when the banks build up with large piles of snow.

Composition-wise, a snowblower has a more complex mechanical function than that of a snowplow, meaning that the former typically requires frequent maintenance and inspections. Finally, as many of us have learned growing up, operators will typically have to take multiple passes with a blower to clear an area, especially surfaces that are not completely flat.

In comparison, a snowplow is affixed to the front of the compact track loader, skid steer or wheel loader and pushes snow out of your way using a simplified mechanical process. Larger residential and commercial property owners tend to steer towards this type of equipment – instead of a snowblower – because of how fast a blade can clear a large area.

Mechanically, snowplows have the

option of trip edge blades that allow operators to go over small manholes without losing the load, ensuring proper clearance. Blades also typically have hydraulic angles – in addition to different width and length options – so that operators can clear the snow to one side, rather than straight ahead.

From a practicality standpoint, snowplows give limited visibility of area being cleared, and that issue can become even more pronounced when the snow is falling as the snow blade is in operation. If used improperly, the size and weight of blade attachment can cause significant structural damage to parking lots, barriers, lawns and property hardscapes, which is why it is always recommended that the machine is being used by an experienced operator. Lastly, precise clearing can be more difficult to achieve due to large size of the snow blade.

Whatever equipment you have on hand, it is important to annually winterize it to ensure that the blower or blade is ready when it needs to be. Taking the time to

prepare your equipment for winter conditions is one of the most important pieces of regular maintenance to do on compact equipment, especially if it needs to perform in the cold and harsh conditions of a Canadian winter.

For those in the process of making a purchase, the choice of equipment will ultimately come down to preference and property. It is important that operators take time to research the kind of snow they typically get as well as the frequency and length of the snow season. Those factors should be front and center when it is time to make a purchase decision.

Finally, once the snow hits the ground, it is worth gauging what is hiding beneath all of that snow, from small rocks to concrete barriers. Accidents are unfortunately a common occurrence when it comes to snow maintenance, meaning it is important to have familiarity with the area that is being tended to so that you can get the job done.

Source: Kubota Canada

John Deere Launches P-tier Large Wheel Loader Line

John Deere launches its lineup of large wheel loaders as part of its Performance Tiering Strategy. Now available in the U.S. and Canada, the 744 P-tier, 824 P-tier, 844 P-tier, and the new 904 P-tier wheel loaders offer advanced productivity features, increased jobsite reliability, optimal operator comfort, and enhanced serviceability to help improve machine uptime.

“Whether the machines are working at the face or loading trucks, John Deere customers can be confident that the P-tier machines will provide exceptional performance all day – even in the most rugged applications,” said Luke Gribble, solutions marketing manager, John Deere. “Building upon the improvements introduced on the L-series loaders in 2019, the P-tier models incorporate even more technology advancements, providing our customers with a line of dependable and strong wheel loaders to meet the demands of the aggregates industry.”

P-tier wheel loaders offer exceptional

results at high levels with reliable components such as extra-durable axles and high-performing transmission capabilities, helping to boost overall machine efficiency on the job. To improve machine performance while heading into piles, all P-tier wheel loaders include a standard lockup torque converter that adds additional torque during operation and increases shift quality. In addition, the 744 P-tier and 824 P-tier models feature ground-level servicing, including a remote engine oil dipstick and improved electrical and hydraulic routing,



to improve serviceability and get your machine back on the job sooner, increasing uptime.

Combining the productivity-increasing features with a redesigned cab and controls, the 744 P-tier, 824 P-tier, and 844 P-tier wheel loaders provide the muscle needed for operators to work comfortably and efficiently. The redesigned cab

gives the operator more space, storage, and enhanced visibility during operation. Additional features that improve operator comfort and performance include adjustable heated and ventilated seats and an upgraded HVAC system.

Included in the base models of all P-tier wheel loaders are a variety of features aimed to increase performance on the job. High-capacity, heavy-duty axles with standard axle cooling filtration deliver durability in difficult conditions compared to previous models. With advantages, such as fuel-efficient engines, operators of the P-tier machines can do more while burning less fuel. The electrohydraulic (EH) controls with multifunction programmable buttons offer the highest level of operator comfort, while the material-handling buckets with integrated spill guards and curved side cutters make for easier and more intuitive operation.

All P-tier wheel loader models also include technology options such as an



Advanced Vision System and an Advanced Obstacle Detection System for improved visibility and increased situational awareness. The new higher resolution digital cameras, dedicated display, and escalating audible alerts inform operators when obstacles are in the path of their machine. This feature also overlays a projected vehicle reversible path within the same dedicated monitor, enhancing the opera-

tor's experience and control. JDLink™ connectivity is offered as a standard feature on the P-tier wheel loaders, enabling machine communications and remote support from dealers. These features, coupled with premium cab comfort options and included visibility enhancements, ensure operators remain productive throughout the day.

Source: Deere & Company

Electrification Fast-Track for Commercial Vehicles

ZF's Commercial Vehicle Solutions (CVS) division recently announced a joint development agreement with fuel cell and battery systems supplier, Freudenberg e-Power Systems. The partners will develop clean e-Drive “powerpack” solutions, consisting of a fuel cell and drivetrain system, as well as share components for a variety of applications. The initial focus of the agreement is to develop a highly integrated fuel cell e-drive solution for commercial vehicles.

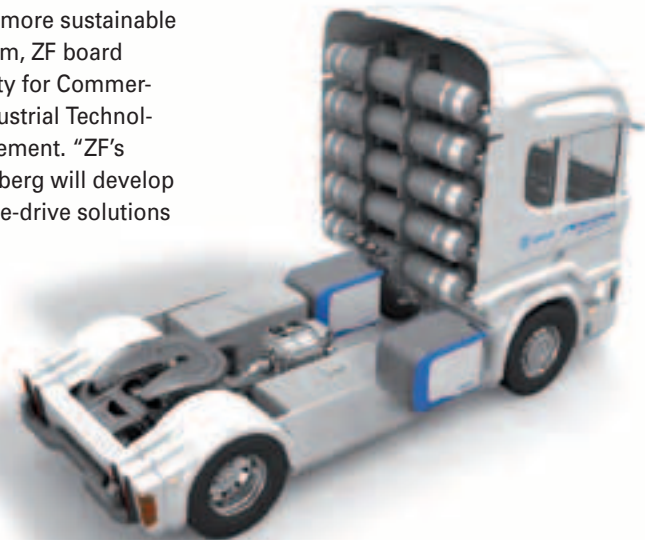
While Freudenberg will offer scalable e-power systems in kit form with various power outputs, ZF will offer complete electric driveline systems of up to 360 kW continuous power. This is in line with ZF's new CeTrax 2 electric central drive for heavy-duty vehicles.

“Decarbonization is a major aim of the transport industry, and within this, fuel cell technology will be a game changer. Together with Freudenberg, we can offer a one-stop-shop solution enabling manufacturers to quickly bring e-mobility solutions to market and supporting the industry's

transformation towards a more sustainable future,” said Wilhelm Rehm, ZF board member with responsibility for Commercial Vehicle Solutions, Industrial Technology and Materials Management. “ZF's cooperation with Freudenberg will develop highly integrated fuel cell e-drive solutions for the commercial vehicle industry. By reducing manufacturers' development and project costs, our powerpack solutions will also help to lower the Total Cost of Ownership.”

The pilot phase of the cooperation agreement is currently underway with prototypes for bus and truck demonstration vehicles being developed. The first prototype is expected by 2023.

When it comes to decarbonization, ZF sees a clear trend towards fuel cell technology due to the longer range and faster refueling times it offers.



By 2030, the Group estimates a worldwide share of this technology to be 20% for heavy-duty commercial vehicles.

As a result, ZF will continue to take a flexible, open-minded approach to fuel cell technology as a drive solution to support this transformation.

Source: ZF Group

Customer Focus Drives Innovation

Held in Munich, Germany, in October, Bauma 2022 welcomed more than 495,000 visitors from over 200 countries.

Intelligent and connected solutions are the future and are attracting great interest in the industry. PALFINGER's integrated solutions have a direct impact on the future working environment. At Bauma, PALFINGER presented crane and lifting solutions that are specifically tailored to customer challenges and enable work assignments to be made more efficient than ever before.

Featuring a range of innovative functions and assistance systems, the new TEC series can handle even extremely complex challenges. PALFINGER has completely redesigned its core product, the loader crane, and added smart innovations to the best features of previous models. This means starting work faster as well as overall more efficient use.

The smallest P-Profile crane to date, the new PK 250 TEC, impressed visitors due to its outstanding performance – not just its size. With a hydraulic reach of almost 20 m, it offers a lifting capacity of 23.5 mt.



The PK 580 TEC, was displayed equipped with a mobile hybrid power unit in addition to the PALFINGER TEC assistant and comfort systems. This makes it an emission-free and low-noise solution. The PK 1050 TEC was PALFINGER's reference in the 100 mt large crane segment, standing out with an impressive reach of 37 m.

The PCC 115.002 crawler crane also

attracted great interest. It can be used both on the crawler module, stationary, or on a truck. It was developed specifically for confined spaces inside industrial buildings and parks and for use on uneven terrain.

Source: PALFINGER AG

Easier Tool Handling an Eye-Opener

Elleholms Maskin, based in Sölvesborg and Karlshamn, Sweden, is a growing contracting company with 60 employees. One of them is Jonny Lindblom, who has been an excavator operator at the company since 2014. The equipment he works with on a daily basis is a Volvo machine, equipped both with a tiltrotator and other equipment from Rototilt. He recently started using a R5 tiltrotator and has equipped his excavator with QuickChange.

"It was an eye-opener to see how much easier it was to handle work tools. And for me it was natural to continue with Rototilt. From start to finish, it was just easier to have everything from the same manufacturer," he explained. "An important part of this was the good contact I had with Rototilt. It was great being able to turn to the same people to discuss the challenges. It helped in making decisions."

The latest subcontracting projects for Elleholms Maskin have included an expansion of Kockums Maskin plant in Kallinge



and the construction of the Lyckeby starch factory in Mjällby.

One of his favorite tools is the compactor from Rototilt.

"A standard 500-kg unit is difficult to lift in and out. The Rototilt compactor works so much better, and I can work slopes thanks to the tiltrotator. It also gives me entirely different precision. You often have to figure on additional compression, but here

I can see exactly the gradient I'm keeping thanks to the compactor's input into the excavation system," added Mr. Lindblom.

For founder and managing director Johannes Henriksson, there are clear benefits with the setup, and he does not rule out equipping more machines with QuickChange. He currently has about 25 excavators, ranging from 2 to 32 t.

Source: Rototilt Group

MICHELIN® TWEEL® UTV Joins the Heavy-Duty Fleet

The new 26X11N14 MICHELIN® TWEEL® UTV tire, which will commonly be used in landscaping, construction, and rental fleets, is designed to carry heavier loads.

It is 70 mm wider and has an increased carrying capacity of a hefty 275 kg more than the 26X9N14 current model. This increase allows customers to fully load their UTVs without exceeding the load capacity of the TWEEL.

"This new line of TWEELS expands our coverage even more for the construction, landscaping and rental fleet markets," said Tony Marconi, business director of Michelin Tweel Technologies. "The success of the TWEEL product line has been amazing, and we know this latest offering will continue to help our customers become even more productive and manage their operating costs with even more efficiency."

Available in 5 SKUs, the new wide-based rear fitment model is offered in 5 different bolt patterns to allow fitting for a wide variety of UTVs. It also boasts a load capacity of 600 kg per tire with a speed rating compatible with the current 26X9N14



model of 100 km/h.

"This new size is needed for many current UTVs in service today," added Mr. Marconi. "This gives us more side-by-side market coverage and can carry the heavy loads to do the type of work they are intended to do."

Designed to perform like pneumatic tires, the MICHELIN TWEEL UTV 26X11N14 airless radial tire line replaces the current

tire-and-wheel assembly, removes the need for complex mounting equipment, and eliminates any costly downtime due to flat tires, a key pain point in the targeted industries.

Source: Michelin North America

Environmentally Friendly Bio-E.P.™ Gear Oils Perform Like Synthetics

Renewable Lubricants recently introduced patented, ultimately biodegradable Bio-E.P.™ Gear Oils which are ideal lubricating spur, helical, bevel, and worm gears subject to heavy loading or shock loading in heavy-duty applications. These environmentally friendly formulations meet or exceed the U.S. Steel 224, AGMA 9005-E02, DIN 51517 Part 3, ISO 12925-1 CKD, David Brown DB S1.53.101 and Cincinnati Machine performance requirements. In addition to performance comparable to or exceeding synthetics, these bio-based products help companies achieve their sustainability goals. Formulated from renewable agricultural bio-based resources, they are non-toxic, zinc-free formulations which contain no heavy metals. Direct replacement products are available for Industrial Grade, ISO grade, and AGMA products. Bio-E.P.™ Gear Oils are an economical choice where leakage or contaminations are more prominent or on equipment with

more frequent oil change intervals.

Energy conserving Stabilized BOBS technology combined with synthetic base stocks and exceptional E.P./anti-wear technology results in a super high viscosity index (VI) product with long life heat stability. This provides longer gear life protection through extremely high film strength during elevated operating temperatures. Rapid demulsification allows users to prevent corrosion, protect components, and extend oil life.

Bio-E.P.™ Gear Oils meet the Environmental Protection Agency (EPA) 2013 Vessel General Permit (VGP) guidelines for Environmentally Acceptable Lubricants (EALs) and should be used where low toxicity, biodegradability, and non-bioaccumulation properties are required. In addition to being safer for the environment, they are safer for employees.



It exceeds the acute toxicity (LC-50/EC-50{1000 ppm) criteria adopted by the U.S. Fish and Wildlife Service and the U.S. EPA. Source: Renewable Lubricants, Inc.

RAD Torque Systems Opens New Facility in Abbotsford

A world leader in tool innovation with roots planted firmly in Abbotsford, British Columbia, has strengthened those ties with the official opening of a massive new manufacturing facility on Marshall Road. RAD Torque Systems, and its parent company New World Technologies Inc., has moved production to the vast new building so it can continue to develop new torque technology that heavy industry around the world relies on. RAD Torque Systems currently employs more than 150 people, and continues to grow by regularly adding new members to the team through ongoing hiring in engineering, manufacturing and assembling roles.

"Our new facility means our whole team is now under one roof, so we can work, learn and move forward together as RAD Torque continues to grow, providing more jobs for the local community, as well as cutting-edge technology to serve the industries we work with around the world," said Dan Provost, president, and founder of RAD Torque Systems, who started the company more than 25 years ago.



RAD Torque is recognized as the leading Canadian manufacturer of pneumatic, battery-powered, electronic pistol-grip torque wrenches, which are shipped and sold globally.

The products from RAD Torque Systems have revolutionized procedures in many industries, including aerospace, defence, mining, wind power, railways, and manufacturing. State-of-the-art milling machines are a key feature at the new facility, helping increase the quality and production of RAD tools.

"What this facility means to us we have much more space to put in our equipment, more equipment, which means we can create more products faster. It's going to help us with our lead times to deliver everybody's product faster, which means we can sell more, and all the employees will be in one building, rather than the 8 smaller buildings we were separated in before," said Pat McFadden, vice president of Operations.

Source: RAD Torque Systems

Cat® D1, D2 and D3 Dozers Now Offer Expanded Features

Cat® D1, D2 and D3 Next Generation Small Dozers feature an improved suite of operator assist ease-of-use technologies geared to increasing machine performance, productivity and efficiency in the field. The technologies offered include Stable Blade Lift and Tilt, Blade Load Monitor, Slow Slip Traction Control and AutoCarry™.

The new dozers also offer a Cat Command for dozing Remote Control (RC) -ready option plus include added mounting features and wire harness routing paths to streamline installation of 3rd-party grade control systems. Simplifying training and operator transition from small to medium machines, small dozers now provide a common technology solution with Cat Command on medium dozer models.

Bundled with the Cat attachment ready option (ARO) with Assist and Grade 3D with Assist packages, new Stable Blade Lift and Tilt improves performance over Stable Blade. The feature combines accelerometers with an advanced control algorithm



to automatically make minor blade raise, lower, and left/right tilt commands to compensate for machine movement, resulting in a smoother surface. New Blade Load Monitor, Low Slip Traction Control and AutoCarry are integrated into Cat Grade 3D with Assist.

Cat D1-D3 dozers now offer a RC-ready option that simplifies dealer installation of Cat Command for dozing. Cat Command allows the dozers to be remotely operated

from a safe distance, eliminating safety risks from potentially dangerous applications. The technology helps increase machine productivity and decrease downtime by allowing production to restart immediately following disruptive processes. By integrating with machine electronics, it allows users to retain the same control as they would operating inside the cab.

Source: Caterpillar

SKF and Ovako Reach Milestone in Journey Towards Net-Zero Bearing Production

A significant milestone has been reached in SKF's journey towards a net-zero value chain. Together with Swedish steel producer Ovako, SKF has produced a Spherical Roller Bearing (SRB) with 90% less emissions than its standard SRB bearing.

The bearing is manufactured in SKF's net zero factory in Gothenburg, Sweden, and uses recycled steel from Ovako's Hofors mill.

As an illustration of the companies' collaboration, the bearing has already been installed in a crane at the Hofors mill, where it is one of hundreds of connected bearings that enable smoother operations and less unplanned downtime.

The Gothenburg factory is the 3rd SKF factory to achieve net zero status, part of the Group's ambitions to achieve net zero emissions across all its operations by 2030. Thanks to a series of process improvements and investments, Ovako has achieved carbon-neutrality for all its

global operations, based on a 97% recycled content and fossil-free electricity.

As well as working with suppliers to reduce the carbon footprint of scrap-based steel production, SKF is also working with a range of partners to help realize dramatic reductions and, eventually, net zero emissions from iron ore-based steel production.

"The industry's journey towards net zero bearing production is accelerating and this milestone illustrates both our leading position and the importance of collaboration. Ovako and SKF have a long history together and this is yet another tangible example of how we are working towards more circular industrial development," said Rickard Gustafson, president and CEO of SKF.

"Throughout SKF's and Ovako's long his-

tory of collaboration, we have successfully developed sustainable steel products for many decades. Now, with this significant milestone, the journey continues towards net zero bearing production using steel from 100% carbon-neutral production," added Marcus Hedblom, president and CEO of Ovako.

Source: SKF Group



FAE Introduces Road Planers for Skid Steers

FAE is expanding its Construction line with a new series of products dedicated to road construction: the asphalt shredders RPL/SSL, RPM/SSL and RWM/SSL for skid steers.

FAE's new road planers are based on "cold planer" technology. The road's surface is scraped and cut by the impact of special teeth that are attached to the rotor with a layout that is specifically designed



by FAE to increase performance and reduce vibration. The fields of application of the RPL/SSL and RPM/SSL are surface preparation for resurfacing roads in anticipation of a new layer of asphalt or



concrete, or to simplify excavation operations. The RWM/SSL model, equipped with a disc rotor, aims to ensure extremely targeted excavations for laying electrical, water, gas and fiber optic conduits.

The RPL/SSL, compatible with skid steers from 60 to 120 hp, can mill up to 17 cm deep and is available in widths of 45, 60 and 75 cm. The RPM/SSL, for skid steers between 75 and 120 hp, is capable of working areas of up to 25 cm deep and 60 cm

wide. Self-leveling skids and tilt ensures optimal results, even on uneven surfaces.

The RWM/SSL, for skid steers from 75 to 120 hp, can create channels up to 50 cm deep with modular widths of 7.6, 10 or 12.7 cm. The depth indicator allows precise depth management and the self-leveling penetration skids allow to always keep the working depth constant.

The new ranges will be available in 2023. Source: FAE Group

Chevrolet Introduces Silverado ZR2 Bison

Building off the success of the recent Silverado ZR2 launch, Chevrolet introduced the first-ever special edition Silverado ZR2 Bison in collaboration with American Expedition Vehicles (AEV) to unlock new heights in off-road capability for customers.

Back in 2019, the Colorado ZR2 Bison became the most popular special edition package offered with the Colorado ZR2. Now, AEV and GM engineers and designers collaborated on the tooling and design to bring forth the Silverado ZR2 Bison.

When compared to the 2022 Silverado ZR2, the Bison is expected to feature improved off-road stats for overlanding adventure. The front approach angle increases to an estimated 32.5° (from 31.8°). The departure angle improves to an estimated 23.4° (compared to 23.3°). The trucks are expected to share the same ground clearance at 305 mm.

This truck reaches new levels of off-road confidence also in part due to the high-quality steel integrated in the AEV bumpers and underbody protection. The AEV-stamped steel front and rear bumpers



are constructed of 3 mm-thick steel and are powder and e-coated. The press-hardened steel used for the underbody skid plates is 3.5 times stronger than an equivalent cold-stamped high-strength steel plate and provides incredible resistance to underbody damage. Gloss black 18" AEV wheel paired with 33" Goodyear™ Wrangler Territory MT tires are part of the package.

The standard 6.2 I V-8 engine with

10-speed automatic transmission delivers 420 hp and 460 lb ft of torque to power through tough terrains. New for the 2023 model year, the refined 2nd-generation 3.0L I6 turbo-diesel Duramax is expected to deliver additional power and torque with 305 hp and 495 lb ft of torque, thanks to several key component upgrades for optimum performance.

Source: Chevrolet

Appointments

Curry Supply Co. recently announced the appointment of **Tim Henry** as director of Continuous Improvement, Quality, and Customer Service.



In this role, Mr. Henry will be responsible for innovation and continuous improvement initiatives across multiple jurisdictions. He will play a crucial part in helping to foster a culture of sustainable change by creating and embedding LEAN methodology and creating a framework for business transformation to improve the company.

Tim Henry's professional career began as a Naval Officer and fighter jet pilot. He has experienced 5 combat deployments to Afghanistan and Iraq. He had many opportunities to lead people from the sky and on the ground. His Naval career culminated as the USS Dwight D. Eisenhower's Air Boss, leading 725 men and women in carrier flight deck operations. He has 10 years' experience in leading teams through continuous improvement projects.

A family-owned company since 1932, Curry Supply has grown to be one of North America's largest manufacturers of commercial service vehicles. With locations in Pennsylvania, Texas, and Arizona, the company is equipped to provide custom and work-ready trucks for the agriculture, construction, mining, oil and gas, rail, rental, and waste industries.

Source: Curry Supply Co.

IronCraft, LLC, formerly branded Titan Implement, has named **Arden Schwandt** as its new CFO replacing retiring Titan CFO Mike Hutsell. He comes to IronCraft after serving as the CFO of M-D Building Products, an Oklahoma-based building products manufacturer.



Previously Mr. Schwandt spent 27 years at The Charles Machine Works Inc., the parent company of Ditch Witch, serving in a variety of accounting and finance roles both in corporate and dealership settings. He will oversee accounting, finance, and FP&A functions.

"We're thrilled to have Arden join the IronCraft team," stated

IronCraft CEO Pat Kozlowski. "He is not only a team player but a team builder. Dealers and sales channel partners are vital to our growth, so with his corporate and dealership experience, Arden will be invaluable addition to the organization."

Source: IronCraft, LLC

Dacke Industri recently announced the appointment of **Mika Virtanen** as vice president for Air Technology and Electromechanics, effective November 1st, 2022.



Throughout his professional career, Mr. Virtanen has held several senior leadership positions in businesses globally, such as terminals and port cranes, automation, mining, construction. He has been part of Kalmar management team at Cargotec. After 15 years with Cargotec, he has led stock listed company, Robit Plc, in Finland. Most recently, he came from Pimatic, one of Dacke Industri's subsidiaries, where he was CEO. He is now taking over that role in order to run, develop and continue to grow the entire Air Technology and Electromechanics division, centered around pneumatics and electromechanics technology within industrial applications.

Dacke Industri invests in innovative technology companies within selected niches with potential for development. It follows a decentralized model where its companies have a high degree of autonomy and are run independently.

Dacke Industri is owned by Nordstjernan since January 2016. It has 17 subsidiaries, over 1,600 employees worldwide, and net sales exceeding SEK 4 billion (\$500 million).

Source: Dacke Industri

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Equip Exposition Announces Biggest Participation Numbers In 40 Year History

Equip Exposition, the international landscape, outdoor living, and equipment exposition, set a new record welcoming over 25,000 attendees and exhibitors. The 2022 show, held in Louisville, Kentucky, October 18-21, debuted a new brand and new experiences for its participants, and all indoor and outdoor exhibit space available was sold-out for both Equip Exposition and Hardscape North America, who co-locates with Equip Expo.



The Outdoor Demo Yard allows landscapers, dealers and other attendees to "test before they invest" in new equipment to see if it is right for their business.

"The trade show remains the industry's family reunion," said Kris Kiser, president and CEO of the Equip Exposition and the Outdoor Power Equipment Institute (OPEI), which owns the trade show. "This year we shook up the programming a bit and introduced lots of new ideas from an opening welcome reception and new, interactive educational sessions to Mulligan's 5K Fun Run & Walk, a coffee bar, and an expanded Outdoor Demo Yard."

"This year's numbers show the industry is strong and optimistic about 2023. The industry continues to innovate and bring new technologies to markets evidenced by the major product announcements, education, networking that went on," he added.

Expo attendees hailed from 49 countries, with the furthest traveling attendees journeying from Guam, New Zealand and Australia.

Educational sessions brought an expanded perspective to attendees on how to expand their businesses.

Original, new programming included timely topics such as "The California Equation" on the impact regulatory changes to equipment in the West are going to have on the industry nationwide.

Next year's show, which returns to the Kentucky Exposition Center, will be held October 18-20, 2023.

Source: Equip Exposition

Agenda

Demcon

November 24-25, 2022
Stockholm, Sweden

Landscape Ontario's CONGRESS

January 10-12, 2023
Toronto, ON Canada

2023 MEP Innovation Conference

January 11-13, 2023
Austin, TX USA

World of Concrete 2023

January 16-19, 2023 (education)
January 17-19, 2023 (exhibition)
Las Vegas, NV USA

The ARA Show 2023

February 12-15, 2023
Orlando, FL USA

Work Truck Week

March 7-10, 2023
Indianapolis, IN USA

CONEXPO-CON/AGG

March 14-18, 2023
Las Vegas, NV USA



IPAF Summit, International Awards for Powered Access

April 19-20, 2023
Berlin, Germany

SMOPYC 2023 – International Show of Public Works, Construction and Mining Machinery

April 26-29, 2023
Zaragoza, Spain

SaMoTer

May 3-7, 2023
Verona, Italy

International Rental Exhibition (IRE) / APEX access show

June 6-8, 2023
Maastricht, The Netherlands

TOC Europe

June 13-15, 2023
Rotterdam, The Netherlands

steinexpo

August 23-26, 2023
Homburg/Nieder-Ofleiden, Germany



The Utility Expo

September 26-28, 2023
Louisville, KY USA

Equip Exposition

October 18-20, 2023
Louisville, KY USA

TECHNI-MAT (Trade show for infrastructure and structural building)

March 6-7, 2024
Kortrijk, Belgium

INTERMAT Paris

Rescheduled to April 2024
Paris, France



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