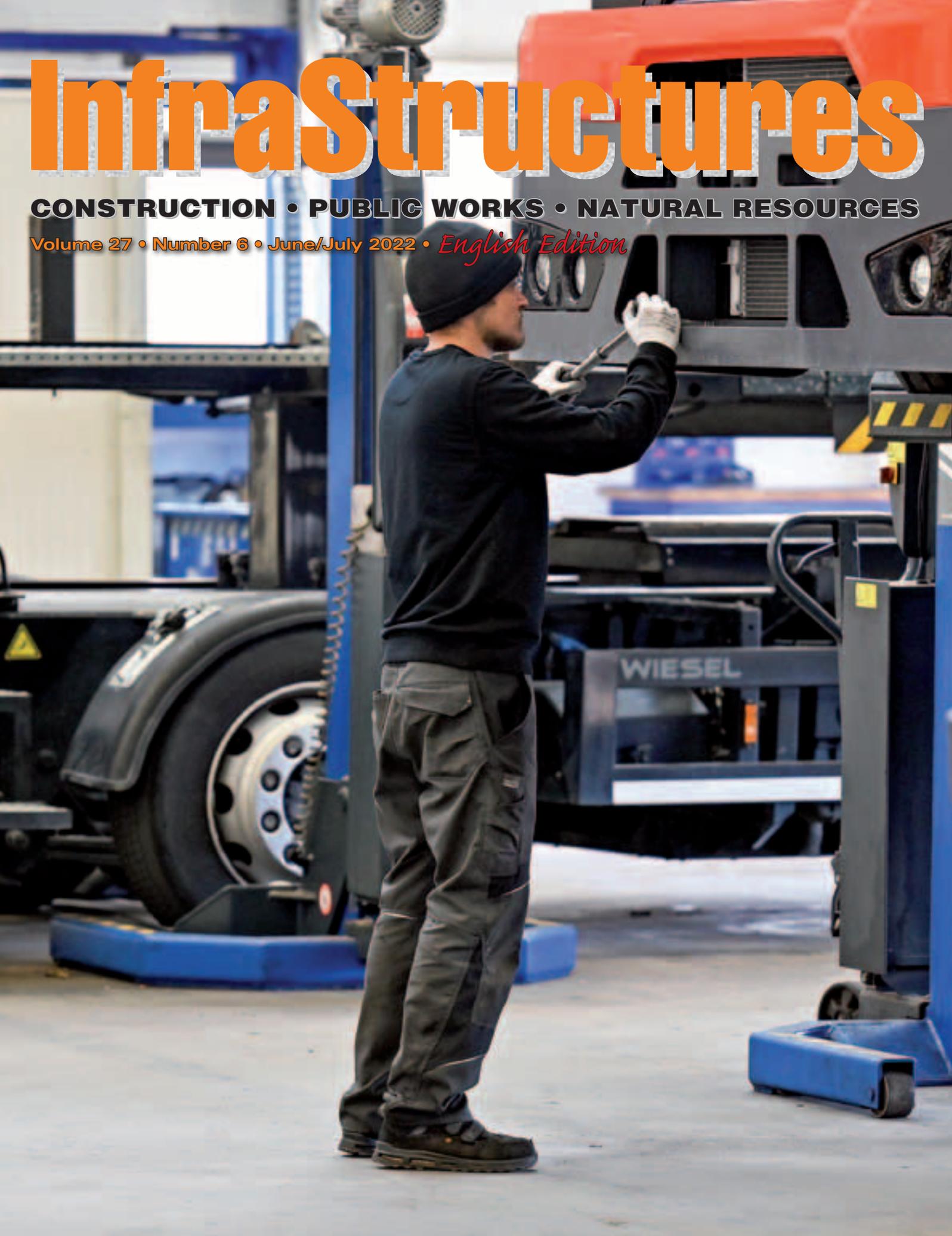


# InfraStructures

**CONSTRUCTION • PUBLIC WORKS • NATURAL RESOURCES**

Volume 27 • Number 6 • June/July 2022 • *English Edition*

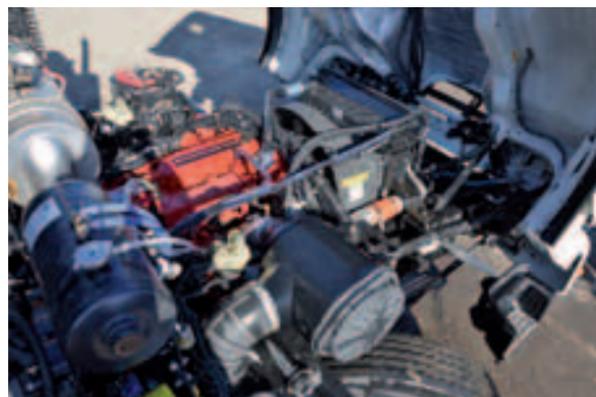




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## A Brief Word...

*As we pass into the second portion of 2022 and the daylight peaks, our industry is racing along at breakneck speed. The previous two years are largely forgotten as we all sprint to get back to life as we know it, and the new challenges we face.*

*Everyone is whining about fuel prices, but we are still well below the international average. It will have an impact however, as will increased lead times and availability of labor. The bright side, as far as Canada's economy is concerned, is that the impetus of Russian sanctions has kicked us up another notch.*

*Iron ore, copper, nickel and related resources industries have been running flat out, now potash, oil, wheat and others have joined them. Canada is, as economist Harold Innis said "hewers of wood and drawers of water" after all. Look at how Alberta has gone from bust to boom in these past 6 months. It brings short and medium term investment, in exploration and infrastructure. It brings the possibility of tripping and falling face first in the longer term.*

*For now, it brings activity in fleet expansion and technological innovation in the equipment we use everyday. It brings customers and jobs to these sectors and we need to make the most of it whilst it lasts.*

*As the song says, " summertime, and the living is easy"...*

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On the cover: KAMAG Transporttechnik has expanded its service capacities at the company's site in the Ulm-Donautal industrial area, in Germany.

The new, larger workshop operation with modern equipment and optimized processes offers a comprehensive range of services for all KAMAG yard logistics vehicles.

**ANGLO AMERICAN UNVEILS ITS H<sub>2</sub>-POWERED HAUL TRUCK**

Anglo American plc recently unveiled a prototype of the world's largest hydrogen-powered mine haul truck designed to operate in everyday mining conditions at its Mogalakwena PGMs mine in South Africa.

The 2 MW hydrogen-battery hybrid truck, generating more power than its diesel predecessor and capable of carrying a

290-t payload, is part of Anglo American's nuGen™ Zero Emission Haulage Solution (ZEHS).

nuGen™ provides a fully-integrated green hydrogen system, consisting of production, fuelling and haulage system, with green hydrogen to be produced at the mine site. It is part of FutureSmart Mining™, Anglo American's innovation-led approach to sustainable mining – which brings together technology and digitalization to drive

sustainability outcomes, including its commitment to carbon-neutrality across operations by 2040.

Anglo American has been a longstanding champion of the potential offered by the hydrogen economy, recognizing its role in enabling the shift to greener energy and cleaner transport. The hydrogen economy provides an opportunity to create new engines of economic activity. With a combination of abundant renewable energy sources (e.g. solar and wind), and as the world's largest producer of PGMs, hydrogen is a strategic priority for South Africa and presents a significant opportunity for economic development, including the creation of new jobs and the development of the PGMs sector, while also contributing to South Africa's decarbonization objectives.

In South Africa, the Department of Science and Innovation (DSI) and the South African National Development Institute (SANEDI), in partnership with Anglo American, Bambili Energy, and ENGIE, are looking into opportunities to create a Hydrogen Valley. The proposed hydrogen valley will stretch approximately 835 km from the platinum group metals-rich Bushveld geological area in the Limpopo province, along the industrial and commercial corridor to Johannesburg and to the south coast at Durban. The nuGen™ Zero-Emission Haulage Solution is one of the first projects for South Africa's Hydrogen Valley.

Source: Anglo American plc

**BAE SYSTEMS TO BRING NEXT-GENERATION ELECTRIC DRIVE SYSTEM TO HEAVY-DUTY INDUSTRIAL VEHICLE MARKET**

BAE Systems will bring its next-generation power and propulsion technology to the heavy-duty industrial vehicle market. The company's electric drive system provides a revolutionary design which will help industrial vehicle original equipment manufacturers (OEMs) get their electric vehicles (EVs) to market faster and at a lower installed cost.

BAE Systems has over 15,000 power and propulsion systems in electrified commercial vehicles across the globe, and those systems have logged 6.4 billion on-road kilometers.

"We are providing an all-inclusive solution to bring the industrial vehicle market one step closer to a zero emission future," said Steve Trichka, vice president

and general manager of Power and Propulsion Solutions at BAE Systems. "Our next-generation components are the Swiss Army Knife of power electronics, delivering multifunctional capabilities in a compact and flexible design. This flexibility makes it easier for OEMs to cover multiple platforms, including traditional diesel and purpose built EVs."

BAE Systems' next-generation system for the heavy-duty industrial vehicle market builds on the company's more than 25 years of experience in low and zero emission EV solutions for the transit bus and marine industries. The system uses fewer components and increases electrical efficiency. Its Modular Accessory Power System (MAPS) and Modular Power Control System (MPCS) also allow for scalable, customized solutions to provide the core power for a range of applications, from school buses and mining vehicles to sanitation and yard trucks.

Using a modular design, BAE Systems' power electronics technology will provide both power and propulsion for battery electric, fuel cell, and electric-hybrid vehicles. In addition to MAPS and MPCS, the next-generation system is available with central motor, electric axle, battery and fuel cell solutions.

BAE Systems has a deep understanding of systems engineering, a revolutionary design for propulsion and accessory power, proven integration expertise, and after-market support to give manufacturers a reliable solution and faster path to market, at a lower installation cost.

Source: BAE Systems

**KOHLER ACQUIRES CURTIS INSTRUMENTS TO DRIVE ELECTRIFICATION EFFORTS**

Kohler Co. recently announced that its Power Group – a global leader in engines, power generation and clean energy solutions – has signed an agreement to acquire multinational Curtis Instruments, headquartered in Mount Kisco, New York. Curtis is a leading electrification partner to OEMs across a broad range of markets including material handling, golf and recreational vehicles, mobile elevated work platforms, construction, agriculture, turfcare, marine and select on-road segments.

Founded in 1960, the company employs approximately 1,100 individuals and operates in 16 countries, including manufacturing locations in Puerto Rico, Bulgaria,

China and India.

Curtis' product portfolio spans motor speed controllers, HMIs and instrumentation, power conversion, CAN modules and other accessories. With a deep roster of talent across 5 engineering centers, Curtis also develops advanced software solutions for its customers.

The acquisition expands and diversifies Kohler's power portfolio by leveraging Curtis' electrification expertise with Kohler's

well-established gasoline and diesel engine business to best serve off-highway OEM customers. Curtis Instruments will operate as a stand-alone entity within the Kohler Power Group with Stuart Marwell, president, reporting to Brian Melka, Group president – Power. Kohler Power and Curtis now have more than 160 years of combined technical experience in energy management solutions.

Terms of the agreement have not been

**MCS Consortium Awarded Delivery Partner Contract for Largest Transit Infrastructure Program in Canadian History**

Mace, Comtech and SYSTRA, working as the MCS consortium, recently announced it has been awarded the contract of Program Delivery Partner to support Metrolinx's GO Expansion program.

MCS will establish a program level management regime to integrate all aspects of the GO Expansion program through the development, implementation and continuous improvement of program-wide systems, processes and procedures in order to support "Best for Program" decision making, subject to Metrolinx's governance, policies and procedures.

MCS will be integrated as delivery partners with Metrolinx to manage this complex program of works, which includes new stations, electrification of existing lines, installing new rail lines, upgrading existing stations, signalling, and more. The Program Delivery model brings skilled external partners into the Metrolinx team, to collaborate in managing integration and delivery of major projects through all phases.

The 10-year rail infrastructure program, GO Expansion, is Metrolinx's largest and most ambitious endeavour to date and aims to expand the GO Transit rail service. With a long-term vision of providing 2-way, all-day service, every 15 minutes or less on core segments of its rail network, Metrolinx will provide increased connections between communities.

As an infrastructure program, GO Expansion will support the growing regional economy through job creation and improved connectivity, unlocking investment and urban development in the Province of Ontario. The combination of cleaner, electric trains and more people using metro-style transit will also significantly improve air quality in the Greater Toronto and Hamilton Area.

The 3 firms will draw on their individual strengths for the benefit of the program. Mace will leverage British expertise from the mobilization of large integrated teams on the HS2 program at Euston Station in London as well as Birmingham New Street railway station, and from its successful role as a delivery partner for the London 2012 Olympic Games. Metrolinx will benefit from Comtech's experience delivering multiple mandates within Metrolinx's capital projects portfolio and expertise in program delivery and information system management, along with French engineering firm SYSTRA's extensive international track record in rail construction, operations, and maintenance.

Source: Mace Group



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disclosed. The transaction is announced just days following Kohler's acquisition of Heila Technologies – a microgrid software controls company – and the creation of a separate Home Energy Management Systems (HEMS) business unit focused on residential energy storage. These moves represent Kohler's continued commitment to lead in diversified distributed energy solutions.

Source: Kohler Co.

### CAMBRIDGE ENGINEERS INVENT WORLD'S FIRST ZERO-EMISSIONS CEMENT

Three Cambridge engineers, Dr Cyrille Dunant, Dr Pippa Horton and Professor Julian Allwood, have filed a patent and been awarded new research funding for their invention of the world's first ever zero-emissions cement.

Replacing today's cement is one of the hardest challenges on the journey to a

safe climate with zero emissions. There are many options to make cement with reduced emissions, mainly based on mixing new reactive cement (clinker) with other supplementary materials.

However, until now, it has not been possible to make the reactive component of cement without emissions. The new invention achieves this for the first time.

The inspiration for Cambridge Electric Cement struck inventor Cyrille Dunant, when he noticed that the chemistry of used cement is virtually identical to that of the lime-flux used in conventional steel recycling processes. The new cement is therefore made in a virtuous recycling loop, that not only eliminates the emissions of cement production, but also saves raw materials, and even reduces the emissions required in making lime-flux. The new process begins with concrete waste from demolition of old buildings. This is

crushed, to separate the stones and sand that form concrete from the mixture of cement powder and water that bind them together. The old cement powder is then used instead of lime-flux in steel recycling. As the steel melts, the flux forms a slag that floats on the liquid steel, to protect it from oxygen in the air. After the recycled steel is tapped off, the liquid slag is cooled rapidly in air, and ground up into a powder which is virtually identical to the clinker which is the basis of new Portland cement. In pilot-scale trials of the new process, the Cambridge team have demonstrated this combined recycling process, and the results show all the properties of cement made by today's conventional process.

The new cement was invented as part of the large multi-university UK Fires program led by Professor Allwood, which aims to enable a rapid transition to zero emissions based on using today's technologies differently, rather than waiting for the new energy technologies of hydrogen and carbon storage. Invention of the cement has been rewarded with a new research grant of £1.7 million (\$2.7 million) from EPSRC, to allow the inventors to collaborate with Dr Zushu Li at Warwick University and Dr Rupert Myers at Imperial College, to reveal the underlying science behind the new process. The new grant will fund an additional team of researchers, to probe the range of concrete wastes that can be processed into Cambridge Electric Cement, evaluate how the process interacts with steel making, and confirm the performance of the resulting material.

"If Cambridge Electric Cement lives up to the promise it has shown in early laboratory trials, it could be a turning point in the journey to a safe future climate," said Professor Allwood. "Combining steel and cement recycling in a single process powered by renewable electricity, could secure the supply of the basic materials of construction to support the infrastructure of a zero-emissions world and to enable economic development where it is most needed."

Source: UK Fires

### DANA AND LION ELECTRIC CO. ANNOUNCE LONG-TERM AGREEMENT

Dana Incorporated recently announced that it has confirmed its strategic supply relationship with current OEM partner Lion Electric Co. to support its lineup of electric

## DPD UK Adds 1,000 Ford E-Transits to Its Fleet

Parcel delivery firm DPD UK will receive 1,000 E-Transit vans this year, which will take its electric vehicle (EV) fleet to over 2,500 in total.

DPD UK has purchased the 3.5 t, 135 kwh, long wheelbase version with 12.4 m<sup>3</sup> of load space. The vans will operate from depots right across the UK and DPD took delivery of the first E-Transits in May.

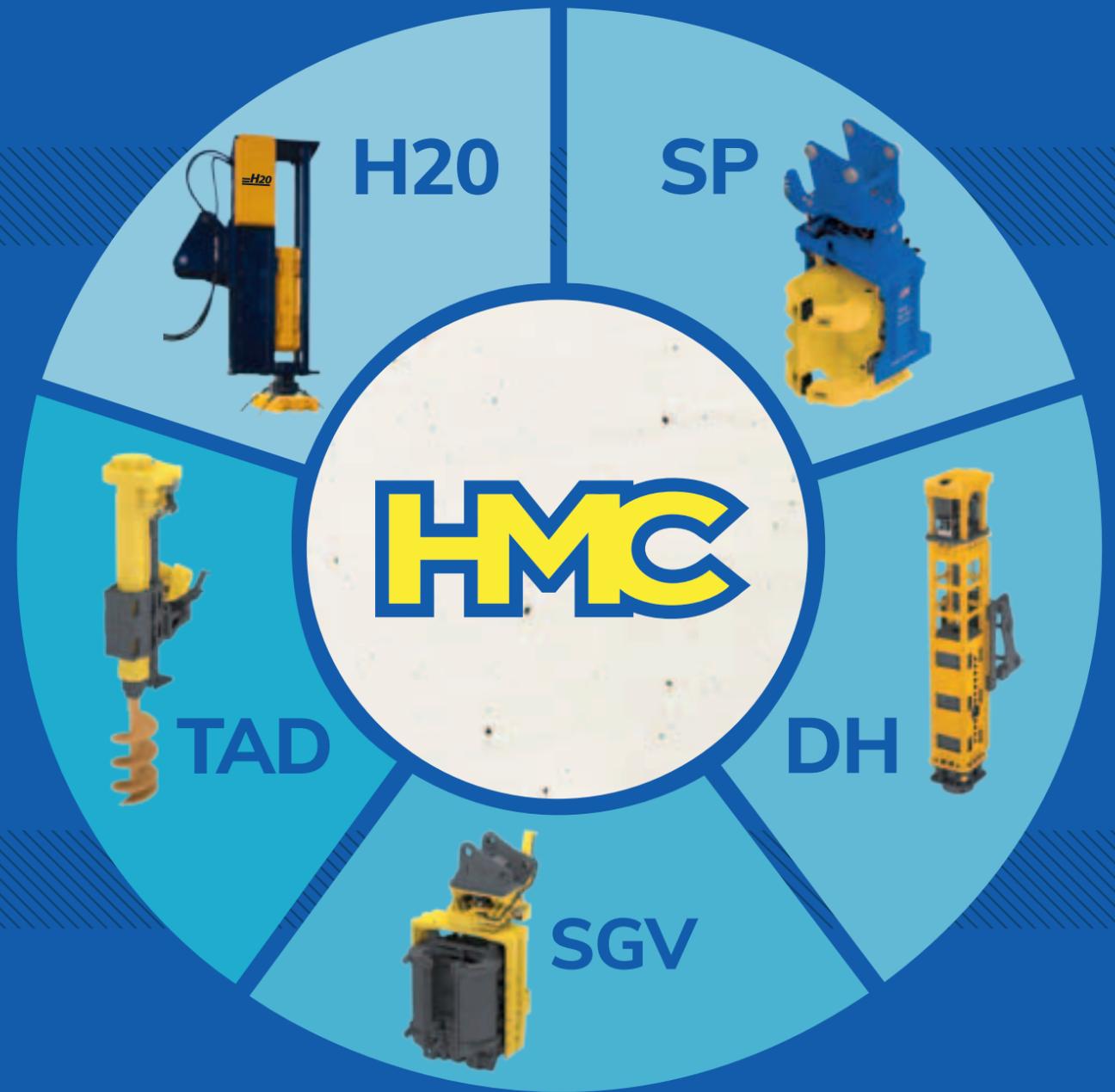
"Getting our hands on the electric Ford Transit feels like a really big moment. 3.5 t vans are the workhorse of any delivery fleet, and we are no different. We've said all along that we need the main commercial van manufacturers to step-up with affordable models and large scale production of right-hand drive vans to really get the EV revolution going in the UK. And Ford have done just that. The E-Transit is well priced, has a good range and comes with all the support you would expect from Ford," commented Olly Craughan, Head of Sustainability, DPD UK.

DPD UK is a member of DPDgroup, the largest parcel delivery network in Europe. DPDgroup is the parcel delivery network of GeoPost, a holding company owned by France's La Poste. The company operates more than 10,000 vehicles from 84 locations and delivers over 400 million parcels a year.

Source: DPD UK



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buses as well as medium- and heavy-duty trucks.

The strategic relationship covers the supply of the electric drive systems, including electric motors, inverters, and controllers, as well as axles and driveshafts for all Lion Electric platforms, including the LionA, LionC, LionD, LionM, Lion6, and Lion8.

“The bus and medium-duty truck segments are among the fastest growing for electrified products and we have developed our portfolio to enable a seamless integration for our customers vehicles,” said Ryan Laskey, senior vice president of Dana Commercial Vehicle Drive and Motion Systems. “We are excited to support Lion Electric as they deliver on their mission to help electrify urban transportation for buses and medium- and heavy-duty trucks.”

“We are pleased with our strategic relationship with Dana in order to deliver the highest quality medium- and heavy-duty all-electric trucks and buses available

today. By working together, Lion will be able to continue meeting the increasing demand in the marketplace for zero-emission transportation solutions, especially as we prepare to manufacture vehicles at our upcoming U.S. facility in Illinois in the second half of this year,” said Yannick Poulin, COO at Lion Electric.

Lion Electric vehicles featuring Dana technologies were featured at the Advanced Clean Transportation Expo, held May 9-12, in Long Beach, California.

Source: Dana Incorporated

**DAIMLER AND CUMMINS COLLABORATE ON HYDROGEN FUEL CELL TRUCKS**

Cummins Inc. and Daimler Truck North America are collaborating to uplift and validate Freightliner Cascadia trucks with a Cummins hydrogen fuel cell powertrain for use in North America. Freightliner will leverage Cummins’ 4<sup>th</sup> generation fuel cell powertrain, which provides improved power density, efficiency and durability.

The joint effort will support both

## XL Fleet Unveils All-Electric Refuse Vehicle at WasteExpo 2022

XL Fleet Corp. unveiled its first ever all-electric pre-series unit on the Curbtender Quantum refuse truck at WasteExpo 2022, held May 9-12, in Las Vegas, Nevada. The vehicle was developed in collaboration with Curbtender, Inc., utilizing a Ford F-600 chassis. The EV solution is the first of 3 pre-series vehicles, and the companies plan to build and deliver multiple commercial units in 2022.



The all-electric vehicle features a proprietary swing panel packing mechanism, which allows the packer to clear more trash in a shorter amount of time and with a smaller hopper requirement. The result is a faster, lighter rear loader with an industry-leading payload. The zero-emission propulsion system will also become available on the Curbtender TomCat model, the company’s most versatile refuse collection truck.

“The commercial waste management industry is in need of sustainable, cost effective, and energy efficient vehicles,” said Kevin Watje, CEO of Curbtender. “The all-electric platforms we’re developing with XL Fleet are leading us into our decarbonized future, without compromising durability or performance. As we get ready to deliver our first vehicles, we look forward to strengthening our partnership with XL Fleet and better serving customers throughout North America.”

Source: XL Fleet Corp.

organizations' goals to reduce emissions across product offerings and operations. Upon successful validation, the companies intend to have initial units available in 2024 for selected customers.

"Cummins and Daimler Truck have a strong history of partnership, and this next step into fuel cell electric vehicles is an exciting development for zero-emissions transport," said Amy Davis, vice president and president of New Power at Cummins. "Hydrogen fuel cells are a promising solution for the demanding requirements of heavy-duty trucking. Our collaboration in this market is an important milestone for both companies as we work to accelerate the shift to a carbon-free economy."

"CO2-neutral commercial transportation must not only be technically feasible, but also economically viable for our valued customers," said Rakesh Aneja, vice president and chief of eMobility at DTNA. "Depending on the customer application and energy infrastructure considerations, hydrogen-powered vehicles can absolutely

complement battery-powered electric vehicles in accelerating our carbon-neutral journey. We are pleased to expand our partnership with Cummins to include hydrogen-powered fuel cell electric vehicles in our future portfolio. We remain focused on serving our customers by providing them with a choice of propulsion technologies, ultimately resulting in solutions that best suit their business needs."

Source: Cummins Inc., Daimler Truck North America

#### WETASKIWIN CRITICAL INFRASTRUCTURE PROJECT MOVES FORWARD UNDER PARTNERSHIP FRAMEWORK WITH GRAHAM

Municipalities in Canada have an urgent need for water and wastewater infrastructure, but face significant obstacles in acquiring financing to get the job done quickly and efficiently. The City of Wetaskiwin recently secured financing for the construction of their new wastewater treatment plant, due for completion in December 2023. Financing was raised under

Graham's new Municipal Asset Partnership (MAP) framework.

Through the partnership, the City of Wetaskiwin and Graham have reduced the financial burden of the project through cost-efficient private financing – combined with a \$12.9 million Alberta Provincial Grant – to fund the \$53 million project. With project development complete and financing secured, construction started in May 2022.

"With regulatory requirements around wastewater treatment facilities becoming more stringent, we had to be innovative to cover the cost of the mandated wastewater treatment plant upgrade with the grant funding we had available. Graham's new approach allowed us to secure all the financing we needed while ensuring financial flexibility remained for other municipal priorities. Additionally, we have an active role in the entire process as an equal partner," explained Sue Howard, city manager from the City of Wetaskiwin.

Graham's MAP is an innovative framework customized for any size of project, structured in a way that preserves municipal borrowing limits and keeps cash flow strong. It also allows Wetaskiwin to retain control of the facility and future revenue streams.

Graham's utilization of Green Bonds to finance the project provides a clear indication to the public that the project will have demonstrable positive impacts on the local environment. The Green Bond designation can only be achieved by projects that meet stringent evaluation criteria, maintain robust reporting practices, and demonstrate the achievement of defined environmental objectives.

The City of Wetaskiwin selected Graham and Aquatera as a business partnership to provide construction, financing, and long-term operations and maintenance services, while Associated Engineering is providing the design services for the new facility.

Source: Graham

## VINCI Will Build the Springbank Off-Stream Reservoir in Alberta

VINCI Construction, through its earthworks subsidiary specialized in major projects, will build the Springbank Off-Stream Reservoir located 15 km west of Calgary on behalf of the Province of Alberta.

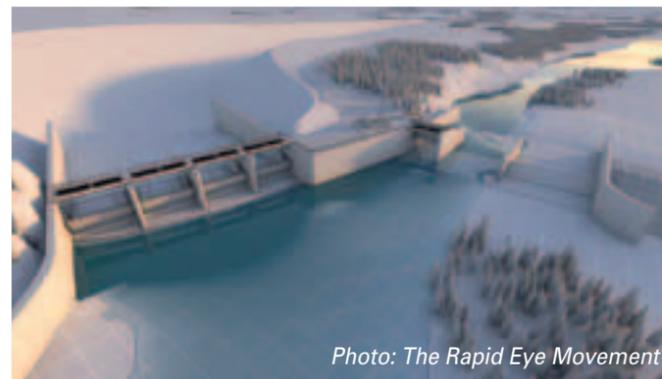


Photo: The Rapid Eye Movement

This project will help protect the inhabitants of Calgary and the surrounding areas by diverting and temporarily storing water from the Elbow River during peak volume events to avoid flooding such as occurred in 2013.

The project, worth \$379 million, is anticipated to last for 3 years. It includes a regulation structure on the Elbow river, a 29 m high earthen dam stretching approximately 3.8 km, and working together with a water intake and a 4.3 km diversion channel.

In total, earthwork for this project is estimated at around 5 million m<sup>3</sup>. The contract also includes road development works and construction of engineering structures on adjacent roads.

Award of the Springbank Project acknowledges VINCI Construction's expertise in infrastructure that contributes to climate resilience in support of sustainable development. It reinforces VINCI's local presence in Canada, where it accounts for over 5,200 employees and generated revenue of \$2.2 billion in 2021.

Source: VINCI Construction



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#### MACHINERY SUPPLY JOINS LIPPMANN MILWAUKEE AS DEALER FOR WESTERN CANADA

Lippmann Milwaukee, Inc. is proud to announce Machinery Supply as the new dealer for Western Canada, with their territory including Alberta, Saskatchewan, Manitoba, and British Columbia. Machinery Supply will represent all Lippmann crushing and screening equipment in the territory.

Machinery Supply was founded by current president Brian McAdam in 2010, when he recognized the need for dependable and reliable equipment support in the aggregates business in Western Canada. Since then, the company has sustained continued growth, expanding to include sales and service technicians experienced in the aggregates business.

In 2020 Machinery Supply combined forces with longtime partner, Power Equipment Company, headquartered in Denver, Colorado, and is now a subsidiary of the company. With the added support from Power Equipment Company, Machinery Supply has been able to enhance its product and service offerings in Western Canada.

Machinery Supply is proud to be a full-service Lippmann dealer providing both equipment sales and rentals, as well as maintaining a full inventory of in-stock parts with locations in Calgary, Alberta and Winnipeg, Manitoba.

Source: Lippmann Milwaukee, Inc.

#### KINSHOFER ACQUIRES TREVI BENNE

Kinshofer GmbH, from Germany, and Trevi Benne S.p.A., from Italy, recently announced that they have signed a definite agreement to merge. Under the terms of the agreement Kinshofer has acquired a majority shareholding of Trevi Benne.

For over 50 years, Kinshofer has been a leading manufacturer of tools and attachments for truck-mounted cranes, excavators and skid steer loaders. Previous acquisitions of Liftall Inc. (Canada), Demarec B.V. (Holland), RF System AB (Sweden), Auger Torque Group (U.K./Australia/China), Solesbee's LLC (U.S.), the Doherty Group (New Zealand/Australia), Hammer Srl. (Italy) and Cangini Benne Srl. (Italy) were other important milestones of this development.

The acquisition of Trevi Benne is significant for Kinshofer. It strengthens

Kinshofer's portfolio of demolition tools. It improves Kinshofer's distribution channels in markets where Trevi Benne is very strong. And, it enhances Kinshofer's local manufacturing facilities in Italy. With this move, Kinshofer further demonstrates its commitment to being a global leader in attachments to the crane and excavator industry.

Trevi Benne, a family business established in 1992, puts its focus on the development and marketing of demolition and scrap processing tools for excavators, to make carriers more productive and long-lasting. With an extremely committed and well-educated workforce, Trevi Benne will continue to develop and sell its products globally.

In order to meet the current market requirements, Trevi Benne and Kinshofer will recruit more staff to ensure a swift and professional market launch of the companies' products within either sales organization.

"Kinshofer continues its strategy to provide the industry with a 'One-Stop-Shop' solution of outstandingly engineered

products to increase efficiency and, more importantly, profitability for its customers. The acquisition of Trevi Benne was the next step in our approach to be a global industry leader with solid local presence," said Thomas Friedrich, president & CEO of Kinshofer Group.

Source: Kinshofer, a member of Lifco AB

#### TWO PROJECTS TO INCREASE THE SUPPLY CHAIN EFFICIENCY IN NEW BRUNSWICK

The Minister of Transport, Omar Alghabra, and the Member of Parliament for Saint-John-Rothesay, Wayne Long, recently announced more than \$42 million for 2 new projects under the National Trade Corridors Fund. These projects will help improve supply chain efficiency for Canadian shippers in Saint John and McAdam, New Brunswick.

This includes an upgrade rail terminals in Saint John and McAdam and additional capacity, an increase to the cargo laydown capacity and crane capabilities of the West Side Terminal.

Source: Transport Canada, Port Saint John



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## Increased Demand for Prefabricated Wooden Elements

Because of the climate crisis, constructors are increasingly turning to prefabricated wooden elements. Wood is the only construction material that stores carbon, in contrast to steel and concrete that have a negative impact on the climate.

“Wood construction offers many advantages. It’s a renewable material that’s good for the climate. Since steel and concrete have accounted for the bulk of construction material used in Sweden, we must turn our attention to more renewable alternatives in order to tackle the climate challenges facing us,” said Rickard Brännman, project manager at Flens Byggelement.

Founded in 2008, Flens Byggelement delivers prefabricated wooden elements to all of Scandinavia. The company uses Metsä Wood’s Kerto® LVL for its prefabricated roof elements. Kerto LVL is an engineered product made by gluing several layers of 3 mm-thick veneers to create a strong and stiff material. It enables the construction of long-span floor and roof elements



from an optimized amount of wood.

“Our customers often require specific properties, such as long spans, low U values and low deflection, and Kerto LVL is an excellent choice in this respect,” added Mr. Brännman.

Flens Byggelement now plans to invest in a new production line to increase the production of Kerto LVL elements in order to meet the customer demand for prefabricated wooden elements.

“It will enable us to expand our produc-

## Miller Formless M-6040 Slipform Paver Earns 2022 Concrete Contractor Top Products Award

*Concrete Contractor*, a U.S.-based magazine serving concrete construction professionals, recently named Miller Formless’ M-6040 slipform paving machine a 2022 Concrete Contractor Top Products award winner.

Innovation and dependability were critical factors in selecting the 2022 Concrete Contractor Top Products awards, which represent the concrete industry’s most popular and efficient products. The M-6040, first introduced to the U.S. market in spring 2021, is designed to be one of the world’s most versatile and productive concrete slipform paving solutions.

“We are honored and beyond thrilled to receive this prestigious award,” said Joe Ouellette, Miller Formless president. “The M-6040 is one of the latest product innovations offered by Miller Formless, a global equipment manufacturer in operation for over half a century. Today, our industry-leading brand is synonymous with quality and reliability.”

The M-6040 is a robust slipform paving

machine used to construct everything from roads and highways to bridge decks and airport runways. Key features include a dual-telescoping main frame, a hydraulic variable-width paving mold, an advanced machine control system and other state-of-the-art elements. Of note, the M-6040 is the only paver on the market capable of extending up to 5 m wide without frame or mold inserts. For larger jobs, bolt-on mold inserts can be used to expand the system to 6 m wide.

“The M-6040 consistently produces smooth, high-quality concrete surfaces and maximizes cost-effectiveness and flexibility on projects of all scope and scale,” comments Darick Franzen, Miller Formless vice president of business development. “Increased efficiency, speed, reliability and economy also rank high on the list of benefits that help to ensure project owners and construction teams stay productive, on schedule and on budget.”



In addition to the M-6040, Miller Formless offers the M-8100 and M-8800, which are larger machines also used to slipform concrete pavement, along with equipment for placing concrete curbs, gutters and barrier walls. The manufacturer also designs custom slipform molds to accommodate any project need – even jobs with changing profiles.

Source: Miller Formless



## Birch as High-Quality Material

tion capacity significantly so that we can meet the market demand better and more flexibly,” concluded Rickard Brännman.

Flens Byggelement supplies Kerto LVL-based roof elements to large Swedish construction companies such as Skanska and Veidekke. Skanska aims to be carbon neutral by 2045. When it began constructing a new assisted living facility north of Södertälje, in Sweden, it decided to use prefabricated wooden elements made by Flens Byggelement, with Kerto LVL used for the roof elements.

“We are in favor of increasing the use of wood in construction. It’s a step in the right direction towards climate neutrality,” said Ove Rinnbäck, supervisor at Skanska Hus.

Source: Metsä Wood

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A new dissertation from Linnaeus University looks at how birch wood properties can be improved through tree breeding, forest management and with better measurement methods. Grace Jones, in the department of Forestry and Wood Technology at Linnaeus University, in Sweden, has studied birch wood properties from genetics trials and a species mixture trial of spruce and birch. The hope is that this increased knowledge will make birch forests more popular and, as a result, inspire new products and areas of use.

Birch is the 3<sup>rd</sup> most common tree species in Sweden. However, only a fraction of the stems are used for anything more refined than pulpwood and firewood, despite the fact that Swedish birches grow by 15 million m<sup>3</sup>/y. In her dissertation, Ms. Jones has studied the wood properties in breeding trials with silver birch and downy birch, as well as the effects of mixed species forests where the proportions of spruce and birch varied.

In order to measure wood properties like density, stiffness and grain angle, she has used a number of non-destructive testing methods. When using these modern measurement techniques, only small wood samples are needed to draw conclusions for the rest of the stem. Furthermore, some of the methods do not require removing any wood from the tree. Unlike more destructive wood measurements, these tests do not harm the tree so it can continue to grow afterwards.

Grace Jones’s research is part of FRAS (future silviculture in southern Sweden), a joint research project by Linnaeus University, Swedish University of Agricultural Sciences (SLU), and the Swedish forestry research institute Skogforsk. FRAS aims to contribute to development of silviculture in southern Sweden, and adapt silviculture to meet both the present needs and future conditions. This is done in close collaboration with the forestry industry in the region.

Source: Linnaeus University

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## AUSA Introduces Its D301AHG 3 t Dumper

After completing the launch of its dumpers with higher payloads, AUSA is continuing to upgrade its equipment with the new D301AHG dumper, which has a 3 t payload. A completely new machine, designed with the aim of delivering higher productivity and a better return on investment for the customer, as well as improved operation safety.



The D301AHG is equipped with a Kubota 24.8 hp engine with no DPF, which complies with the Tier 4 emissions standard.



Additionally, the machine's low weight and permanent all-wheel drive give it excellent off-road capability and 50% gradeability. The power is transmitted via hydrostatic transmission, ensuring smoother and safer operation.

The driving position is equipped with a seat that has a presence sensor and a seat belt with a buckle sensor.

This new machine has been designed

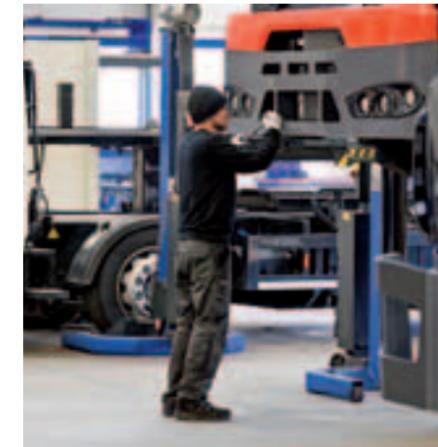
to achieve optimal productivity. In this new design, a new dump body has been devised with a heaped capacity of 1.75 m<sup>3</sup>, which is 12% higher than in the previous model. The power-to-weight ratio has also been optimized, resulting in a machine that is more maneuverable, quicker and with greater off-road capability.

Source: AUSA

## KAMAG Optimizes Service for Yard Logistics

KAMAG Transporttechnik has expanded its service capacities at the company's site in the Ulm-Donautal industrial area, in Germany. A new, larger workshop operation with modern equipment and optimized processes offers a comprehensive range of services for all KAMAG yard logistics vehicles. The move offers great advantages for all KAMAG customers.

"In this way, we can guarantee even faster and more efficient processes. The workshop has 6 service lanes which are directly accessible via 6 gateways. This means we avoid any time-consuming maneuvering," explained Patrick Scheck, manager of the new KAMAG workshop.



A special service provided by the KAMAG workshop is the so-called incoming check. In the process, the entire vehicle is subjected to a check for wear and tear as well as functions. The clients then decide for themselves what work they want to have carried out on the basis of the diagnosis. Added to this, there is a parts warehouse that can be accessed very quickly and facilitates an extraordinarily high level of parts availability.

"We store all the important spare and wear parts here. Our primary interest is to get the vehicles moving again as quickly as possible," said Patrick Scheck.

A mobile service option is also available for working with customers in the region. Within the continuously growing KAMAG service network, selected service companies can ensure that free capacities are made available to each other so that urgent repairs can also be carried out. Moreover, a fleet of replacement vehicles is available for customers. All measures contribute



to the fact that KAMAG customers can maintain their yard logistics at all times.

The constantly expanding service network also includes premium service partners. Regular training and audits enable KAMAG to guarantee a high level of performance. The premium partners currently include 18 companies with a total of 29 branches.

In addition, KAMAG works together with

around 160 service companies and service centers throughout Europe in order to offer customers from all sales regions a qualified service program. By using the KAMAG Click4Parts online shop, customers can obtain high-quality original spare parts around the clock, even via mobile devices.

Source: Transporter Industry International Group (TII Group)

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## Celebrating Safety at the Crane Rental Association of Canada's Annual Conference

The Crane Rental Association of Canada is pleased to announce the recipients of the Safety Awards for their outstanding health safety standards in 2021.

The Awards, announced during the Closing Banquet of the Annual Conference, held in Niagara-on-the-Lake, Ontario, May 19<sup>th</sup>, 2022, place 12 crane rental companies on center stage for their commitment and dedication in creating a healthy and safe work environment for their staff, operators and the public.

Receiving Safety Awards are:

- A.W.Leil Cranes & Equipment Ltd, Dartmouth, Nova Scotia
- ABCO Crane Services, Nisku, Alberta
- Amherst Crane Rentals Ltd., Toronto, Ontario
- Canuck Concrete Pumping & Crane, Yellowknife, Northwest Territories
- Capacity Truck & Crane Service Inc., Abbotsford, British Columbia

- Irving Equipment Ltd., Saint-John, New Brunswick
- Mammoet Canada, Edmonton, Alberta
- Myshak Group, Acheson, Alberta
- NCSG Crane & Heavy Haul Services Ltd., Acheson, Alberta
- Radius Crane & Rigging Inc., Nisku, Alberta
- RKM Services Ltd., Langley, British Columbia
- Sterling Crane, Edmonton, Alberta

"The Crane Rental Association of Canada is dedicated to improving the safety of the Canadian crane industry and it is more important than ever to celebrate health and safety among our membership. We congratulate these companies on their performance" said Trevor Eckert, newly

elected Chair of the Board. The Crane Rental Association of Canada's members are crane rental



companies, manufacturers and suppliers of cranes and equipment, and supplier of service used in the specialty crane rental business in Canada.

Source: The Crane Rental Association of Canada

## JLG Financial® Retail Lending Program Now Available to Equipment Purchasers in Canada

JLG Industries, Inc., an Oshkosh Corporation company, recently announced the growth of its JLG Financial® retail lending program, now available to an expanded range of equipment buyers, including end-users and contractors, as well as rental houses and equipment distributors, in the United States and Canada. The program offers financing for purchases of \$3,000 or more on new or used equipment (most makes and models, including competitive brands, reconditioned and certified equipment), attachments, accessories and parts.

"When the original retail lending program launched in Fall 2018, it was available exclusively through rental companies and equipment distributors in the U.S. to support their customers' purchases," says Jonathan Oris, JLG finance manager. "Since then, the program has grown significantly, including the addition of Canadian lending in 2019. Today, the program has evolved to offer various financing options, with industry-leading rates directly to customers in North America. To date, we've processed 1,850 applications for over 100

brands of equipment and 250+ unique equipment models and attachments (new and used). Those applications have resulted in the funding of more than \$100 million, enabling customers to acquire the new and/or used equipment needed to run their business."

With the expanded retail lending program, business owners and end-users can directly apply for financing through JLG Financial via a simple online application. Once an application is submitted for approval, customers can get credit decisions via text, email or phone in 90 minutes or less in most cases. JLG Financial also achieves industry-leading approval ratios by working with multiple lending partners, including LEAF Commercial Capital, Inc. (LEAF) in the U.S. and CWB National Leasing in Canada.

Once approved, the JLG Financial lending team works to customize financing options and tailor payment structures, including balloon, seasonal or skip payments, as well as loans, leases or lines of credit, buy-outs and step-up/step-down



opportunities, to best fit each customer's unique business needs.

It is an unpredictable lending market right now, with interest rates going up nearly every day. JLG Financial locks rates in for 30 days, publishing a fixed monthly rate card. JLG Financial also offers subsidized rates on purchases of new JLG® and SkyTrak® equipment models.

Source: JLG Industries, Inc.

## Allison to Provide Propulsion Solutions for the U.S. Army

Allison Transmission will support the U.S. Army's newest tactical wheeled vehicle program named the Common Tactical Truck (CTT).

The U.S. Army has proposed replacing most variants in its heavy tactical wheeled vehicle fleet with a single platform that shares a common powertrain, chassis, and cab. The CTT program will leverage advancements from the commercial vehicle industry including driver safety systems, off-road mobility, predictive maintenance, and increased fuel efficiency. Prototype vehicle testing will begin in late 2023 with an award decision occurring as early as 2025.

"Our mission is clear - to improve the way the world works with the most reliable, innovative, and efficient propulsion solutions that deliver the performance, quality and differentiated value propositions our customers have come to expect from Allison," said Dana Pittard, vice president, Defense Programs at Allison

Transmission.

Allison will support the CTT program's fuel efficiency targets by incorporating propulsion systems equipped with FuelSense 2.0®, an advanced set of software and electronic controls that deliver fuel savings of up to 6% without sacrificing performance.

Beyond innovative drivetrain products, Allison stands ready to support our customers and CTT's project development milestones through the state-of-the-art infrastructure available at the Vehicle Electrification and Environmental Test Center (VE+ET) located at Allison's global headquarters in Indianapolis. The venue offers a wide range of seasonally independent vehicle-level testing capabilities applicable to conventional, alternative fuel, electric-hybrid, electric, and hydrogen fuel cell vehicles.

The U.S. Army's recently released



climate strategy includes the goal of transitioning to hybrid-drive tactical vehicles by 2035. Allison has been investing in electric hybrid propulsion systems for decades, and as a result, the company is well positioned to support the defense market in the shift to electric vehicle technology.

Source: Allison Transmission

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## Kohler Approves Use of HVO for All Its Engines in Europe

Kohler Engines recently approved use of EN15940-compliant Hydrotreated Vegetable Oils, or HVOs, for all its diesel engines – either pure or as a blend with conventional diesel. The approval came after intensive laboratory and on-the-field testing by Kohler's engineering team. The group's diesel engines do not require any kind of modification or specific upgrade to use HVO. However, use of exhaust gas after-treatment systems will still be necessary where already required.

HVO is a renewable paraffinic fuel also known under the names "synthetic diesel" and "renewable diesel". It is produced with plant or animal oils derived from the residues of the meat and fish industries. Since it is obtained from organic material, HVO – unlike biodiesel – does not use agricultural resources or contributes to deforestation. It can be used wherever diesel fuel is used today. A reduction in overall CO<sub>2</sub> emissions of up to 90% can be obtained depending on the raw material

employed in HVO production. HVO fuel can be distributed, handled, and stored just like any conventional fuel.

"We are witnessing a growing interest from customers for use of synthetic fuel (HVO) and other renewable fuels. eFuels are especially interesting, not only for their positive environmental impact but also because they reach performance levels comparable to diesel fuels," stated Luigi Arnone, senior manager of Diesel Engine Engineering at Kohler, adding that "HVO is a stable fuel that doesn't require any engine modifications or additional maintenance."

HVO fuel has a lower density, reducing power and torque performance by 1 and 5%. This effect is partly compensated by a

higher cetane number which translates into positive effects on combustion.



Use of renewable fuels is one of the essential requirements to reach global decarbonization targets. With approval of HVO fuels for all its diesel models, Kohler is making its contribution to a more sustainable future.

Source: Kohler Co.

## Multi-Wing Announces the Release of OPTIMISER 11 Fan Specification App

Multi-Wing America recently released its OPTIMISER 11 Fan Specification App, an easy-to-use resource for original equipment engineers to specify the most efficient, tailor-made Multi-Wing fan for their application. It is ideal for specifying fans in heating, ventilation, air-conditioning and refrigeration (HVACR), as well as engine cooling in off-highway equipment and gensets.

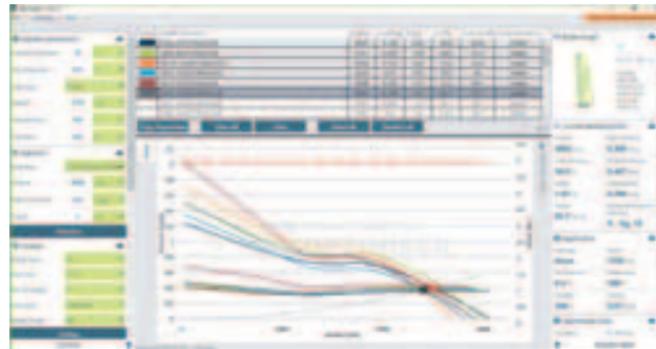
OPTIMISER 11 Fan Specification App features an intuitive interface that more efficiently accesses essential fan curve data, such as horsepower and sound information for select static pressure and cubic feet per minute (cfm) data. In addition, users have more flexibility to modify their dashboard, including data preferences and color selection for customized visual display of fan performance curves.

"This app allows our customers to identify the most optimized and efficient customized fan for their equipment," said Larry Marsinek, sales engineer at Multi-Wing America. "Its improved user interface

provides efficient display of important data on sound, total efficiency and performance curves that engineers need to develop the best fan specification."

The previous version of the OPTIMISER app will not be updated with the newest fan information. The basic version of OPTIMISER 11 is available to everyone to download by visiting the company's website. To access complete data and advanced features, users have to contact the company.

Multi-Wing Group was established in the U.S., Canada and Mexico in 1972 as Multi-Wing America. Headquartered in Middlefield, Ohio, Multi-Wing America is North America's leading supplier of high-performance, modular axial fans in the broadest range of materials and



blade profiles. Multi-Wing America is ISO 9001:2015 and 14001:2004 certified.

Source: Multi-Wing America



## Final Test Phase Before the Start of Series Production for the Mercedes-Benz eEconic

FES Frankfurter Entsorgungs- und Service GmbH is using the near-series e-truck from Mercedes-Benz Special Trucks for municipal waste collection in Frankfurt am Main in Germany.

The fully battery-electric eEconic celebrated its trade show premiere at IFAT – the world's leading trade show for water, wastewater, waste and raw materials management, held from May 30-June 3<sup>rd</sup>, in Munich. The start of series production at the Mercedes-Benz plant in Wörth is planned for summer this year.

The eEconic has a permissible gross weight of 27 t. As is the case with the eActros for distribution haulage, the drive unit is made up of an electric axle with 2 integrated electric motors and a 2-speed transmission. The batteries of the eEconic series-production model consist of 3 battery packs, each with an installed capacity of 112 kWh and a usable capacity of around 97 kWh. Both liquid-cooled



motors generate a continuous output of 330 kW (440 hp) as well as a peak output of 400 kW.

The eEconic scores with its lower noise emissions, especially in urban operation. In addition electrical energy can be recovered through recuperation – a major advantage, especially in the stop-and-go operation of refuse collection. At the end of the daily routes, the batteries of the electric truck

can be recharged with up to 160 kW at customers' depots. In addition, the eEconic's vehicle architecture benefits from Daimler Trucks' global platform strategy: The drivetrain of the low-floor truck is based on the Mercedes-Benz eActros, which has been in series production at the Wörth plant since October 2021.

Source: Daimler Truck

## Goodyear's First Waste Haul Tire Made From Sustainable Soybean Oil Tread Compound

On May 10, 2022, at the 2022 Waste Expo trade show in Las Vegas, Nevada, The Goodyear Tire & Rubber Company announced, a new formulation of its popular Endurance™ WHA waste haul tire. The Endurance WHA is now made with soybean oil, which replaces a portion of the petroleum-based materials used in its production. The soybean oil in the tire is a bio-based material currently sourced from surplus left over from food applications and is another step in Goodyear's global journey to fully replace petroleum-derived oils by 2040.

"Producing the new Endurance WHA tire lineup with a sustainable soybean oil compound will help waste haul fleets pursue their sustainability goals while delivering the long hours to removal that the Endurance WHA tire is known for," said Jessica Julian, Commercial Product marketing manager, Goodyear North America. "In each new Endurance WHA tire, soybean oil will replace almost 0.5 l of free-flowing petroleum oil. When you multiply that

by a moderately-sized regional waste haul fleet of around 500 trucks, it could decrease petroleum-based products by the equivalent of almost 15 barrels of oil."

Endurance WHA tire models made with soybean oil are now available for order and will head into production in Q3 of 2022.

The Endurance WHA tire is designed to keep waste haul fleets on the road longer with a dual-layer tread compound that helps optimize treadwear. Add to that, rolling resistance and a deep 24/32" skid depth for long tread life in waste haul applications. Additionally, the Endurance WHA comes with optional built-in DuraSeal Technology® that instantly seals tread punctures to help fleets reduce downtime, costly repairs and premature



removal of a tire.

The Endurance WHA with soybean is part of Goodyear's Total Mobility platform of providing trusted products, a premier service network and complete tire management to our customers.

Source: The Goodyear Tire & Rubber Company

## High-Capacity Hydraulic Lift Table Simplifies Maintenance

The new LiftMaster 7000 from LiftWise allows users to lift or lower a variety of parts into position for maintenance or other needs. Featuring a high lift capacity with a compact and maneuverable design, the hydraulic lift table provides easy operation for some of the most demanding operational tasks.

The LiftMaster 7000 has a lift-off capacity of 2,500 kg and a full capacity of 3,175 kg. A pump handle is used to precisely raise/lower the table with a maximum lift height of 965 mm.

For easy maneuverability when moving and positioning heavy components, the LiftMaster 7000 includes 15 cm-diameter swivel wheels and locking casters. An optional bolt-on transfer top can provide additional versatility by allowing 6° rotation, 50 mm side-to-side movement, and 50 mm front-to-back movement. It has perforated sections that can be used for fine positioning items on the table by using a small pry bar. The transfer top has



a 1,814 kg load capacity and can be easily removed when not needed.

The LiftMaster 7000 is 81 cm wide and 183 cm long with the handle raised. The handle can be folded for a storage height of only 266 mm.

LiftWise is the material handling group

at Diversified Products. The company offers a wide range of products for material handling in assembly, welding and servicing of equipment, as well as other various lifting solutions.

Source: Diversified Products

## AWS Announces Welding Summit 2022

The American Welding Society is pleased to announce the Welding Summit, taking place August 25-26, 2022, in The Woodlands, Texas. The Welding Summit comprises 2 days of presentations, demonstrations, and exhibits where the industry comes together to discuss, dissect, and educate on key issues affecting the welding industry.

The week kicks off with the Pre & Post Heat Treatment seminar on Wednesday, August 24. It will feature interactive presentations on applying new methods and workforce sourcing to projects to alleviate costs and scheduling issues associated with Post Weld Heat Treatment. The following day, The Welding Summit begins and will feature 2 distinctive tracks: emerging trends in welding and attracting and retaining talent in the workforce.

"The Welding Summit is intended to bring the best and highest quality of information and welding professionals together for a series of interactive presentations on how more value can be brought to welding operations and the best way to execute

successful welding plans into projects," said Gary W. Konarska II, executive director and CEO. "We believe you should have a seminar experience that provides quality information that results in your ability to put some of the information presented into your operations immediately."

To preview the event, Joe Young and Steve Snyder, experts in the industry, will host a complimentary webinar on June 15, 2022. Attendees will learn actionable tips they can implement immediately into their practices. Additionally, the AWS Careers in Welding Trailer will be present at the Welding Summit and available for attendees and local high school groups.

The American Welding Society is the worldwide authority in the development of standards, certifications and educational programming for the welding, allied joining and cutting community. It is a not-for-

profit organization committed to connecting the welding industry to an extensive collection of resources, sharing technologi-



cal advancements and developing the next generation of welding professionals with the help of the AWS Foundation. AWS serves over 67,000 members worldwide, is composed of 22 Districts with 250 Sections and Student Chapters.

Source: The American Welding Society

## Zeus Enters Australian Electric Work Truck Market

Zeus Electric Chassis, Inc., a manufacturer of Class 4-6 purpose-built, severe-duty, electric work truck solutions, announced to the industry the details of a memorandum of understanding (MOU) with AUSEV during a media event held at the Advanced Clean Transportation Expo, on May 11, in Long Beach, California. AUSEV is a subsidiary of Boss Capital Holdings dedicated to the manufacture and distribution of electric vehicles.

The MOU will provide opportunities for the companies to collaborate in the distribution, service, and marketing of the Zeus Electric Chassis all-electric cab-chassis in Australia and the broader Oceania market. Zeus will be exporting a new, right-hand drive version of its Z-19 Power Platform to Australia as part of the MOU.

An agreement, when signed, will unlock exciting opportunities to launch the electrified work truck market in Australia. A purchase commitment for 100 vehicles (a combination of fully- and partially- as-



sembled cab-chassis) will be central to the agreement. The MOU provides for final assembly of the knock-down kits in Australia.

For Zeus, a strategic agreement will allow it to leverage AUSEV's presence and expertise in Australia and throughout the Oceania region at large to generate revenue and growth outside of North America.

Moving forward, Zeus will continue to support the expansion of its product portfolio.

Headquartered in White Bear Lake, Minnesota, Zeus recently introduced its all-electric Power Platform cab-chassis designed exclusively for the vocational work truck industry. Its Class 4-6 cab-chassis is designed from the ground up to accommodate the widest possible variety of truck bodies and to operate all traditional truck-mounted equipment.

Source: Zeus Electric Chassis, Inc.

## GM and Glencore Enter Multi-Year Cobalt Supply Agreement

Glencore and General Motors Co. recently announced a multi-year sourcing agreement in which Glencore will supply GM with cobalt from its Murrin Murrin operation in Australia. Cobalt is an important metal in the production of EV batteries, and the cobalt processed from Australia will be used in GM's Ultium battery cathodes, which will power electric vehicles such as the Chevrolet Silverado EV, GMC HUMMER EV and Cadillac LYRIQ.

The agreement builds on a commitment both companies share to create strong, sustainable and resilient supply chains through collective industry and multi-stakeholder platforms. Both Glencore and General Motors are members of the Responsible Minerals Initiative (RMI), and Glencore's Murrin Murrin operation

is conformant with the OECD-aligned Responsible Minerals Assurance Process.

Cobalt is a metal that makes up only 0.001% of the earth's crust. It is known for its heat-resistant properties and is added to lithium-ion battery cathodes to improve energy density and battery longevity.

By the end of 2025, GM plans to have capacity to build 1 million electric vehicles in North America, and has announced a series of actions to create a new and more secure EV supply chain, including projects targeting key EV materials and components:

- Cathode Active Material (CAM) with POSCO Chemical at a new facility in Quebec.
- Lithium with Controlled Thermal Resources (CTR) to secure lithium produced by

the first stage of its Hell's Kitchen Project in California.

- Rare earth materials with GE, to develop a rare earth value chain.
- Alloy flakes with MP Materials, who will establish the first North American processing site for alloy flakes in Texas.
- Permanent magnets with VAC, the largest producer of permanent magnets in the Western Hemisphere.

Source: General Motors Co.

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## Appointments

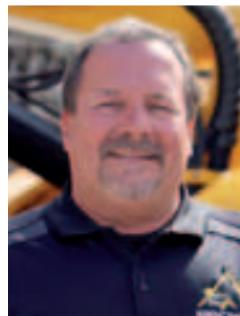
Acrow recently announced the promotion of **Gordon Scott** to vice president Business Development and Operations at **Acrow Canada**. In this new role, he will take on the broader responsibility of managing strategic aspects of Acrow Canada and work closely with the executive management team to drive the continued growth of the Acrow Group as a whole. Mr. Scott is based in Acrow Canada's Toronto office and will report to Russ Parisi, vice president and general manager North America at Acrow.



Since joining Acrow in 2012, Gordon Scott has held positions of increasing responsibility, most recently as director of Operations and Sales. He began his career as a structural engineer with Delcan, a Parsons Company. Mr. Scott received a bachelor's degree in Civil Engineering from Western University and is a Licensed Professional Engineer.

Source: Acrow

Brokk Inc. has hired **Don Spaziani** as service manager for **Brokk East Coast**, located in Stanhope, New Jersey. Brokk East Coast, which houses Brokk and Aquajet inventory, offers operator training, equipment demonstrations, parts and repairs. Mr. Spaziani is responsible for building a service team in that location and expanding repair and refurbishment services in the region.



"An important aspect of supporting our customers' success is giving them easy access to service," said Lars Lindgren, president of Brokk Inc. "We've been growing rapidly, and the time is right to expand services in the eastern U.S. and Canada. Don has decades of experience building and leading service departments and providing outstanding customer service. Our customers will benefit from the team he assembles that specializes in the unique needs of Brokk and Aquajet equipment. We are pleased to welcome him to our team."

Don Spaziani brings 35 years of industry experience to his position at Brokk Inc. After graduating from the Engine City Technical Institute in Union, New Jersey, he started his career as a mechanic at a Caterpillar dealership in the area and worked his way up to service manager. He then joined John Deere Construction and Forestry Equipment Company as regional service/warranty manager, covering 9 branches extending from Maine to New York.

He most recently worked as a regional service manager for the local John Deere Construction and Forestry dealership that covers New York City, the Hudson Valley and Northern New Jersey. During his 9 years in that role, he led the creation of a new Long Island branch that included 12 mechanics and offered service, parts, rentals and sales.

Source: Brokk Inc.

**Hitachi Construction Machinery Americas Inc. (HCMA)** recently announced that **Sonosuke Ishii** has stepped into the role of chairman where he will pursue continued growth through innovative products, services and solutions.

Mr. Ishii brings 40 years of experience and business knowledge with Hitachi that will enable close collaboration between Hitachi and HCMA.

Sonosuke Ishii started in sales and progressed to sales management and leadership positions within Hitachi. He has served as president of Hitachi Construction Machinery Eurasia sales, president of the mining group, vice president and executive officer, and senior vice president and executive officer.

Mr. Ishii takes the reigns from Masaaki Hirose, who took a new role as executive officer at Hitachi Construction Machinery in Japan. While he was chairman of HCMA, Mr. Hirose helped to structure the company under the Hitachi way of business, to increase the visibility and awareness of the Hitachi brand in the construction market and to rapidly grow market share in the Americas.

Source: Hitachi Construction Machinery Americas Inc.



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DF30	30 Gallons	Propane	Skid Mount
DF60	60 Gallons	Propane	Skid Mount
DF100PT	100 Gallons	Propane	Trailer



DF60

### OIL JACKETED MELTING KETTLES WITH HEATED HOSE AND WAND (KERA)



KERA 180BRE

	Available Models		
	Tank Capacity	Burner Type	Frame Type
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KERA230BRE	230 Gallons	Diesel/Propane	Trailer
KERA370BRE	370 Gallons	Diesel/Propane	Trailer



KERA 370BRE



HMT4000

### 2 TO 4 TON ASPHALT HOT BOXES (HMT)

	Available Models		
	Tank Capacity	Burner Type	Trailer Type
HMT4000	4000 lbs	Propane/Diesel	Fixed/Dump
HMT8000	8000 lbs	Propane/Diesel	Fixed/Dump



HMT8000



HERP36

### PORTABLE INFRARED ASPHALT HEATER (HEPR)

	Available Models		
	Tank Capacity	Burner Type	Trailer Type
HEPR36	30 or 40 lbs	Propane	Portable

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	Available Models		
	Tank Capacity	Burner Type	Frame Type
UCMK130DT	130 Gallons	Diesel/Propane	Trailer
UCMK230DT	230 Gallons	Diesel/Propane	Trailer
UCMK370DT	370 Gallons	Diesel/Propane	Trailer



UCMK230DT

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**Agenda**

- APWA's PWX 2022**  
August 28-31, 2022  
Charlotte, NC USA
- M&T Expo - Trade Fair for Construction and Mining Equipment**  
August 30 - September 2, 2022  
São Paulo, Brazil
- NTEA - Commercial Vehicle Upfitting Summit**  
September 13-14, 2022  
Sandusky, OH USA
- SWIFT 2022**  
September 13-15, 2022  
Montreal, QC Canada
- GaLaBau 2022**  
September 14-17, 2022  
Nuremberg, Germany
- APOM Technical Day**  
September 15, 2022  
*Change of Venue*  
Dorval, QC Canada
- InnoTrans**  
September 20-23, 2022  
Berlin, Germany
- Equip Exposition / Hardscape North America**  
October 18-21, 2022  
Louisville, KY USA
- inter airport FOCUS**  
October 20-21, 2022  
Berlin, Germany
- bauma**  
*Rescheduled to October 24-30, 2022*  
*Munich, Germany*
- Landscape Ontario's CONGRESS**  
January 10-12, 2023  
Toronto, ON Canada
- World of Concrete 2023**  
January 16-19, 2023 (education)  
January 17-19, 2023 (exhibition)  
Las Vegas, NV USA
- Work Truck Week**  
March 7-10, 2023  
Indianapolis, IN USA
- CONEXPO-CON/AGG**  
March 14-18, 2023  
Las Vegas, NV USA
- SMOPLYC 2023 – International Show of Public Works, Construction and Mining Machinery**  
April 26-29, 2023  
Zaragoza, Spain
- International Rental Exhibition (IRE) / APEX access show**  
June 6-8, 2023  
Maastricht, the Netherlands
- steinexpo**  
August 23-26, 2023  
Homburg/Nieder-Ofleiden, Germany
- The Utility Expo**  
September 26-28, 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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