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A Brief Word...

This October, more than any other in our lifetimes truly denotes change.

Not only does October 2022 mark the start of Autumn and the gradual slip into shorter and cooler days. It not only signals the subtle change to daily routine and the growing anxiety as winter deadlines loom. For many it may even signal a new machine, truck or fleet after significant delays in production and deliveries by most OEMs.

Yet it is not these predictable and routine changes that will set this out from all the others before or since. Recent events have seen us all thrust into a new age, the first in living memory for most of you reading this. A mere month ago each child born was a New Elizabethan like you.

This change of season brings a change of era as this Carolean Age begins. Hesitation, confusion, and fear shall weigh in their measure as we trod into this future. Just as each new project or machine brings trepidation and hesitation we shall move onward to discover the opportunities it may reveal.

You need reliable, authentic resources to help you chart your future and that of your business. We hope that whatever the topic those resources are as valued and uncorruptable as your faith in InfraStructures as your equipment tome.

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On the cover: the earthworks on a landfill site in Germany were carried out with the aid of Wirtgen tractor-towed stabilizers, Hamm soil compactors and John Deere motor graders. After this, Vögele pavers placed 2 layers of specially formulated asphalt mix, which were then compacted by smooth drum soil compactors.

GFL ENVIRONMENTAL AWARDED NWRA 2022 RECYCLING FACILITY OF THE YEAR

GFL Environmental Inc. has been awarded the National Waste & Recycling Association (NWRA) 2022 Recycling Facility of the Year for its Multi Material Recovery Campus in Toronto, Ontario. The award recognizes leading material recovery facilities (MRFs) in North America based on key factors such as innovation, partnership, public education and environmental

impact.

"We are proud to receive the NWRA 2022 Recycling Facility of the Year award," said Patrick Dovigi, founder and CEO. "This is the second time in the last 3 years that one of our MRFs has received this honor. We have always invested heavily in technology to provide the best in sustainable solutions to our customers. This award supports our vision of always remaining entrepreneurial, investing in leading

technology and providing our customers with the very best in recycling services."

GFL's Toronto Multi-Material Recovery Campus is located on a 10.9 ha site that houses 2 single stream MRFs that operate 24/7.

122 Arrow Road was the first MRF developed at the Campus. It began operations in 2010, processing mainly commercial material, and has since been modified to house an advanced single stream processing system. 124 Arrow Road was built in 2013 for the City of Toronto single stream processing contract, with excess capacity for future opportunities. As one of the largest, most technologically-advanced single stream facilities in North America, this facility was designed with sustainability and future needs at the forefront of all decision making.

Both facilities are designed with state-of-the-art technology including elliptical fiber separation, optical sorting, fully automated high-speed sorting robots and other mechanical separation processes. This design not only maximizes recovery, it also allows GFL to adapt to changing material composition and ensure the end production of high-quality processed recyclables. A dedicated material composition analysis center is also located on site to facilitate the sorting and analysis of inbound and outbound material.

The Campus has proven to be an overwhelming success for GFL. The Campus serves the material recovery needs of approximately 4 million municipal households and has processed over 3.5 million t of material from municipal and commercial sources since its inception in 2010.

Source: GFL Environmental Inc.

SPARK POWER STRENGTHENS RELATIONSHIP WITH ALBERTA'S LARGEST ELECTRICITY PROVIDER

Spark Power Group Inc., parent company to Spark Power Corp. recently announced that its wholly-owned subsidiary, Orbis Engineering Field Services Ltd., has been awarded a renewed multi-year capital maintenance contract by AltaLink, following an extensive competitive bid process.

AltaLink owns and operates more than 300 substations and 13,000 km of transmission lines, accounting for more than half of Alberta's transmission grid. The 3-year Contract strengthens a business partnership dating back to 2011.

"We are pleased to continue our long-standing business relationship with AltaLink," said Richard Jackson, president & CEO, Spark Power Corp. "We appreciate the continued confidence in our field services team to be the Trusted Partner in Power™ to deliver on this scope of work. The award of this contract renewal demonstrates Spark Power's safe and effective service delivery on behalf of our utility clients and positions us well to continue to build relationships in this segment across North America."

With thousands of kilometers of lines and hundreds of substations, the AltaLink network requires highly skilled workers to maintain equipment to optimize its performance. The Contract covers both capital replacement and upgrade and non-capital replacement and upgrade projects. The scope of work includes replacing substation equipment or installing new equipment and other major site upgrades that involve new control or switchgear buildings.

Source: Spark Power

CUMMINS AND VERSATILE HYDROGEN ENGINE COLLABORATION ANNOUNCED

Cummins Inc. and Buhler Industries Inc., the manufacturer of Versatile branded tractors, recently announced that they have signed a letter of intent and plans to integrate the Cummins 15-l hydrogen engines in Versatile's equipment to lead the decarbonization of the agriculture market.

Versatile is a longstanding manufacturer in the agriculture space with a reputation for excellence in tractors," said Ann Schmelzer, general manager Cummins Global Agriculture Business. "Our companies share a commitment to technology, quality and dependability for our customers. Cummins is excited to be working with Versatile as we leverage our respective strengths to create new opportunities for both companies."

Since 1967, Versatile has used Cummins engines exclusively in all 4-wheel drive tractors. For decades, both Versatile and Cummins have been leaders in technology innovation and delivering reliable perfor-

mance to farmers across the globe. Each company is uniquely positioned to build on their exceptional histories in agriculture as they step forward into new powertrain technologies.

"While diesel engines continue to be the flexible power of choice for the foreseeable future in agriculture, such a collaboration enables both companies to develop low and zero-carbon solutions that are ideally suited to farming," said Adam Reid, Versa-

tile's vice president of Sales and Marketing.

"Cummins has recently announced its plan to leverage existing platforms and expertise in spark ignited technology to build hydrogen engines. The high commonality among engine components between diesel and hydrogen leverages scale advantages for OEMs, while delivering the reliability that farmers need," added Ms. Schmelzer.

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solution for high load factor and high utilization applications. Key benefits of using this technology include enabling a more-timely solution to reduce carbon emissions without sacrificing productivity. It minimizes the impact on the machine design for manufacturers, allowing common parts and components across platforms to drive scale advantages, reducing costs. When integrated in farm equipment, farmers will have a solution that is dependable, as well as easy to service and maintain.

Source: Cummins Inc.

BROWN AND CALDWELL TO SUPPORT METRO VANCOUVER WITH UPGRADES AT WASTEWATER FACILITY

Brown and Caldwell is supporting Metro Vancouver as it undertakes major upgrades at the world's largest trickling filter solids contact wastewater facility at the Annacis Island Wastewater Treatment Plant. The project will increase capacity, meet the needs of a growing population, and protect essential utility operations against seismic events.

Located in Delta, British Columbia, the

Annacis Island Wastewater Treatment Plant treats about 196 billion l/y of wastewater, serving approximately 1.25 million residents in 14 municipalities across the Lower Mainland. It uses primary and secondary treatment technologies to remove organic matter from wastewater before safe release to the Fraser River – the world's largest salmon-bearing river.

Part of a multi-year program of over 20 projects to expand the capacity of the plant, the newly initiated project involves the design and construction of 2 new trickling filters and an associated pump station. The plant's 4 existing centrifuges will be replaced with new, larger capacity units to improve dewatering output and avoid a costly and invasive dewatering building expansion. Additionally, a modern maintenance workshop will be built so that staff can maintain the expanded facility.

Once complete, the suite of upgrades will increase capacity to serve approximately 1.6 million people. The new facilities will be designed with future expansions and seismic resiliency in mind.

Detailed design and construction engi-

neering services are being delivered by Brown and Caldwell. As prime consultant, the firm will lead program, project, and quality management; detailed design; and construction management. Major sub-consultants EIC Solutions, Klohn Crippen Berger, and J.L. Richards and Associates will provide electrical/instrumentation and controls; geotechnical and hydrogeological; and architectural design services respectively.

A critical early component of constructing the new assets entails extensive ground improvements to improve seismic performance. The complex groundwork includes risk mitigation, geotechnical, and resiliency considerations to protect existing structures and utilities during installation. Paramount to the project's success is carefully sequencing of construction activities to maintain plant integrity and minimize operational disruptions during site works.

"We commend Metro Vancouver's unwavering commitment to environmental stewardship while continuing to serve its communities through innovative and sustainable practices," said Mike Thorstenson, program manager at Brown and Caldwell. "Our team relishes the opportunity to help write the next chapter of this monumental expansion and maintain the Annacis plant as a premier North American treatment facility."

Source: Brown and Caldwell

been training to run a challenging 5 km in 5 days across 5 Graham locations to raise money for the Canadian Mental Health Association (CMHA) and National Alliance on Mental Illness (NAMI) in the U.S.

"I'm not a serious athlete, but I am serious about physical and mental health. We're all on our own mental health journey. At Graham, we're committed to helping our employees build healthy and happy lives. The mental health and psychological safety of our workforce, partners and community is a critical focus area across our company. We believe an investment in wellness is essential to ensuring our employees' best performance and their overall wellbeing," explained Andy Trewick. "If living through a pandemic has taught us anything, it's that mental health matters and affects everyone no matter who they are."

In addition to the outpouring of donations received so far, 5 Graham corporate partners, Borden Ladner Gervais, head-ersity, RBC, Travelers Bond and Zedcor Security Solutions generously donated sponsorship money to offset expenses to

ensure 100% of the donations go directly to the charities.

"CMHA National is inspired and thrilled by Graham and this initiative," said Margaret Eaton, National CEO, Canadian Mental Health Association. "This generous contribution will aid in providing mental health care and support for youth, their families and communities across Canada. Our huge thanks and admiration to all who participated in the run and donated."

"NAMI Colorado is grateful that Graham reached out to its U.S. cities where it has operations," said Ray Merenstein, NAMI Colorado's executive director. "Partnerships and innovative ideas like this – along with generous donors – will provide ongoing, free, mental health support for thousands of Coloradans."

Source: Graham Group

ing processes with a simple IoT-module (Interet of Things) that is easy to retrofit. At Bauma 2022, Hatz will present the Digital Solutions to the wider public.

Hatz Performance Tracking is the first product from the Digital Solutions series. It is already being trialed by model customers. Performance Tracking is a fleet management service that supplies structured information, such as the operating status, consumption, or location of digitally connected Hatz engines. For instance, this information can be used to optimize the planning for the machine fleet, implement geofencing, or optimize maintenance points. This allows fleet operators to benefit from needs-based operation with maximum productivity and profitability. Delays on the construction site are avoided, while theft and unauthorized use are prevented or at least impeded.

At Bauma, Hatz will also provide a first look at Smart Automated Remote Application. This service enables the remote automation of processes that are difficult to access or are located in remote areas. The service also significantly simplifies

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workflows in which a manual process requires considerable additional time and effort. Sensor data or information from 3rd-party systems can be integrated and enable the intelligent and needs-based automation of the processes. This saves time and resources.

“What really sets Hatz Digital Solutions apart is the user-friendly integration. In contrast to most proprietary cloud and fleet management solutions on the market, our digital solutions are open for seamless integration into existing cloud platforms, ERP, and fleet management systems,” explained Dr. Maren Hellwig, head of Digital Business Development. “This means that machine operators can continue to use their customary and established software. Data on Hatz-operated machines can be integrated via an appropriate digital interface.”

Hatz Digital Solutions are the perfect addition to the engines of drive specialists. The retrofittable plug and play IoT module transmits the operating data generated by the engine and the machine to the cloud. This enriched information is visualized in

the browser-based Hatz IoT Dashboard, among other areas. The use of this data allows Hatz to offer a range of software and service products that make life easier for machine operators and make their companies more productive. The IoT Dashboard provides access to power, availability, location, maintenance requirements, and much more key information on the connected engines and machines at any time.

Source: Motorenfabrik Hatz GmbH

SUPERIOR TEAMS WITH AULT EQUIPMENT FROM CENTRAL TO ATLANTIC CANADA

Superior Industries, Inc. recently announced a new full-line dealer partnership with Ault Equipment. The Waterloo, Quebec-based dealer now exclusively represents Superior’s crushing, screening, washing and conveying equipment in Ontario, Quebec, Newfoundland and Labrador, New Brunswick, Nova Scotia, and Prince Edward Island.

“We’re honored to get to work with this well-connected, forward-thinking company,” said Scott Gulan, Superior’s Equipment Sales manager. “The team

at Ault partners with their customers so personally and we’re excited to unite our employees to benefit Canada’s aggregate producers.”

As a full-line dealer, Ault Equipment will sell, service and support Superior’s crushing, screening, washing and conveying equipment and parts. The manufacturer’s diverse product portfolio includes jaw, cone, HSI and VSI crushers; horizontal, inclined and grizzly feeding vibratory equipment; scrubbing, classifying, washing and dewatering solutions; plus unloading, transferring and stacking conveyors including Superior’s famous TeleStacker® Conveyor.

For more than 15 years, Ault Equipment has provided customers with state-of-the-art equipment and the fastest, most efficient service possible. During that time, they have grown into one of North America’s best-performing equipment suppliers. Ault Equipment has facilities across Ontario, Quebec and the Maritimes to support customers with rapid parts and service.

Source: Superior Industries, Inc.

TEREX MP ACQUIRES PROALL, CANADA’S LEADING PRODUCER OF VOLUMETRIC MIXERS FOR CONCRETE

Terex Materials Processing (MP) recently announced the acquisition of the Canadian company ProAll, a specialist producer of mobile volumetric concrete mixers.

ProAll’s history traces to companies that were originally founded in the mid-1960s. The company was initially an importer of volumetric mixers into Canada but has since grown into a leading producer of volumetric mixer products. ProAll’s main production is based in Olds, Alberta. It also operates a service and installation site in Keller, Texas.

ProAll’s products are designed for business owners who seek to combine state-of-the-art technology with the flexibility and reliability in concrete delivery that only a volumetric mixer can bring. ProAll’s equipment delivers make-to-order concrete that improves the quality and efficiency of end customer operations while making many smaller and more specialized pours both more possible and more affordable.

ProAll’s expertise will be a valued addition to the Terex portfolio, enabling the company to expand its overall presence in the concrete mixer space. ProAll will join

Terex Advance, the U.S. industry leader in front discharge mixer trucks, and Terex Bid-Well, the U.S. leader in roller pavers for bridge and canal work, as businesses in Terex MP’s concrete sub-segment. Together, these businesses represent a commitment by Terex to increasing its participation in North America’s growing construction markets and in meeting growing infrastructure needs. ProAll also adds an international dimension to what, to date, has been a primarily North American business area for Terex.

Volumetric mixers eliminate concerns about delivery time between a concrete plant and a jobsite. Where a conventional mixer truck can deliver within a range of 2-3 hours from the plant, a volumetric mixer can deliver anywhere with no concern over material degrading or setting up in the back of a mixer. Delivering ingredients enables making several small batches to exact specifications from the same vehicle or meeting the requirements of several different jobs.

Source: Terex Corporation

Electric Trucks for Waste Company

Waste recycling specialist Recycling Lives recently announced the arrival of the UK’s first 100% electric skip transporter trucks, at its 6-ha Recycling Park in Preston.



The 2 19-t E-Tech DZE trucks were designed and developed in collaboration with Renault Trucks and mark the start of Recycling Lives’ journey in decarbonising the company’s entire fleet.

Powered by a 265 kWh battery, the vehicle comes with Renault Trucks’ Battery Performance Promise which guarantees battery operation for up to 7 years.

Source: Recycling Lives

Dartmouth Metals Commissions Non-Ferrous System from Wendt

Wendt Corporation recently announced the commissioning of a small non-ferrous system at Dartmouth Metals Ltd. Located in Nova Scotia, Dartmouth Metals is a third generation, family-operated business that has been serving the scrap industry since the 1960s.



The plant features a feeder, trommel, eddy current separator and electromagnetic sensor.

Source: Wendt Corporation

How the Stertil-Koni Forklift Adapter Can Help Ease Supply Chain Woes

With a global economy hobbled by COVID-19-induced shortages coupled with massive supply chain disruptions, an unassuming accessory increasingly found in many of today’s warehouses and distribution centers is quietly emerging as a key factor in helping to keep the economy rolling.

The hero, according to a recent industry overview from heavy-duty vehicle lift manufacturer Stertil-Koni, is the humble forklift adapter.

Forklifts are indisputably one of the most essential workhorses found in almost every warehouse across North America. In fact, virtually every product that reaches consumers and businesses alike has been moved by a forklift. That is why it is not surprising that they are also subject to strict health and safety rules to ensure adherence to a specified maintenance schedule – which both advances workplace safety and keeps warehouses humming.

The question then arises:

How best to service and maintain a piece of equipment as essential as the forklift? Enter the Stertil-Koni forklift adapter.

“Our Stertil-Koni forklift adapters have been specifically engineered to efficiently lift forklifts – which often have uneven weight distribution between the front and rear axles. These remarkably engineered accessories are designed for use in conjunction with Stertil-Koni’s flagship product – our award-winning Mobile Column Lifts – to safely and efficiently raise 3- or 4-wheel forklifts that weigh up to 14,500 kg,” explained Dr. Jean DellAmore, Stertil-Koni president.

In doing so, the forklift adapters engage directly with the forklift body for maximum

stability to deliver rapid, wheels-free lifting. That it turn makes servicing far more accessible and easy. The forklift adapters also include modular drive-on ramps as standard. What is more, for added safety, the Stertil-Koni Mobile Column Lifts feature overload protection and automated synchronization as standard.

Source: Stertil-Koni USA



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Terex MP Acquires ZenRobotics

Terex Materials Processing (MP) has acquired the assets of ZenRobotics Ltd., a company that designs and creates robots that pick, sort, and recycle waste material. ZenRobotics is a global leader in smart robotic recycling. Its robots, powered by proprietary AI software, make recycling more efficient, accurate and profitable. The company's ambition is to make the circular economy a reality by turning global waste into clean raw materials.

ZenRobotics, based in Helsinki, Finland, will retain its name and become a Terex brand, with the unit reporting to Tony Devlin, who leads the Terex MP environmental businesses.

Terex is already active within global waste markets through Terex Ecotec, Terex CBI, Terex Fuchs, and Terex Recycling. ZenRobotics will add to the Terex portfolio in global waste, where it will continue to be operated as a stand-alone business while also benefiting from MP's broader market presence and

from efficiencies enabled by MP's global scale. This acquisition of a highly "green-focused" company further supports MP's commitment to its environmental business and Environment, Social and Governance (ESG) goals.

Over 15 years of industry-defining product development have enabled ZenRobotics to create industry-pioneering technology. The Heavy Picker is a multipurpose waste sorting robot for bulky material. Equipped with sturdy arms, various sensors, and artificial intelligence, it provides a simple, unstaffed sorting process and makes waste sorting more accurate, safe, and profitable. The Fast Picker is a high-speed waste sorting robot for maximizing material recovery. It is

compactly designed for easy integration to existing processes and conveyors in material recovery facilities (MRFs), and it increases profits by enabling fully-automated sorting and higher output purity. And finally, the company launched the ZenBrain, which is artificial intelligence for sorting robots with advanced recognition ability and autonomous decision-making. This technology provides actionable data and a steep learning curve in optimizing waste sorting efficiency.

Source: Terex Corporation



Rear Eject Bodies for Largest Articulated Haul Truck

Philippi-Hagenbuch, Inc. has expanded its rear eject engineering capabilities to include the largest articulated haul truck on the market, the Volvo A60H. These trucks feature a body volume of 33.5 m³ with a 2:1 heap ratio, making these rear ejects 50% larger than the most common rear eject bodies available.

In partnership with G.W. Van Keppel, a dealership based in Kansas City, Missouri, Philippi-Hagenbuch shipped its first 2 rear eject bodies for Volvo A60H trucks to a mine in Oklahoma. Each of these rear ejects features an interior width of 396 cm and a loading height of 375 cm and is built exclusively out of high-strength, abrasion-resistant Hardox® 450 steel for exceptional life and to handle the extremes they are put under within mining environments.

"Philippi-Hagenbuch is committed to detail in design, professionally engineering their products, understanding the applications and using only the best steel. This makes them a great partner to provide



strong and durable haul truck solutions that help our customers maximize their efficiency," said Taylor Killion, general sales manager, G.W. Van Keppel. "We were confident in PHIL's experience and ability to take on this project and produce a custom solution that would meet this client's objectives."

Philippi-Hagenbuch has custom-engineered hundreds of rear eject bodies for a variety of makes and models

of off-highway haul trucks to increase productivity, safety and stability for many operations. With Philippi-Hagenbuch rear eject bodies, operators can effectively and safely discharge material without having to stop and raise the truck bed, even when the truck is out of position, driving up a hill or under overhead barriers with low clearance.

Source: Philippi-Hagenbuch Inc.

SENNEBOGEN Launches Battery-Powered Telescopic Crawler Crane

At Bauma 2022, SENNEBOGEN will present its battery-powered telescopic crawler crane: the 653 E Electro Battery. The new 50-t battery-powered crane combines the benefits of battery technology with the proven advantages of the telescopic crawler crane concept. This means it can work completely emission-free and remain maximally flexible thanks to the Dual Power Management System.

The machine, developed in collaboration with Dutch dealer Van den Heuvel, forms the first battery-powered telescopic crawler crane in the range. Through the close contact of the dealer with Dutch crane rental companies and construction companies, valuable market requirements from the progressive Dutch market were brought into the development partnership.

The 653 Electro Battery can work fully electrically on any type of construction site and for an unlimited period of time. This is because, like SENNEBOGEN's battery-powered material handler 817 Electro Battery – already launched on the market at



IFAT – the 653 Electro Battery electric crane equipped with a 210 kWh battery pack can be operated both in battery-only mode and while charging from the mains. As soon as the machine is connected to the mains, the mains power is used for lifting activities, excess power fed into the system simultaneously recharges the batteries.

The 653 Electro Battery is not only fossil fuel-free, but also operates with less vibration and quieter than its diesel-

powered counterparts. In addition to the positive carbon footprint, the machine has the added benefit of reduced service requirements, as maintenance procedures such as engine oil changes are completely eliminated.

The world premiere of the 653 Electro Battery will take place from October 24-30, 2022 at Bauma in Munich, Germany.

Source: SENNEBOGEN Maschinenfabrik GmbH

A1A Software Announces First App-Based Lift Planning Tools in New A1A Product Suite

A1A Software LLC recently released the first 2 lift planning tools in its new application-based A1A Product Suite. Rigging Designer enables users to create custom rigging plans and Sketch Pad provides a convenient way to sketch preliminary jobsite data for bids and estimates.

Each of the apps can be used individually or as part of the entire Product Suite. "Moving from web-based to app-based platforms improves functionality for users," said Tawnia Weiss, president of A1A Software. Users don't have to have an internet connection to use the tools. "These apps, and more to come by early 2023, can be used anywhere you can use your mobile phone."

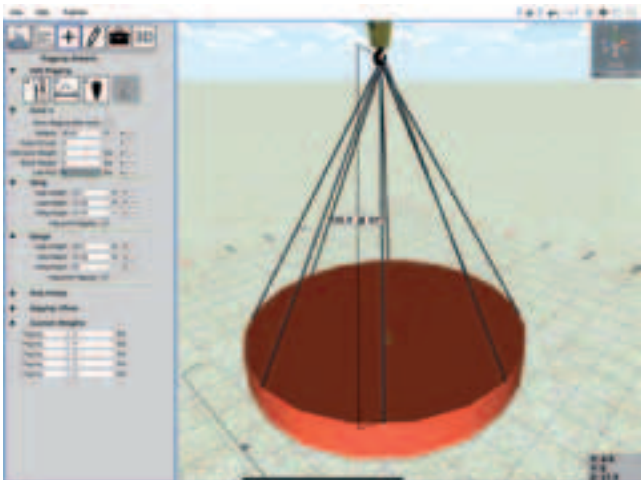
Rigging Designer is ideal for any application where loads must be rigged, whether that is for lifting by a mobile crane, overhead crane, a gantry, or industrial forklift. Point/Click and Drag/Drop functionality makes it easy to create custom rigging designs, or choose from hundreds of pre-built rigging products, loads, and

objects. Users of A1A Software's 3D Lift Plan can also import their rigging designs into the lift planning software for use later.

Sketch Pad, first introduced as a web-based tool in 2019, makes the move to an app.

"It's the same Sketch Pad customers love, only better," said Ms. Weiss. With GPS location services enabled on your mobile device, Sketch Pad now allows you to add a scaled Google Map from the jobsite location.

Used by those who are preparing bids or estimates, preliminary data about the jobsite can be drawn on screen using your finger. Crane location, travel path, obstructions and other information can be noted for future lift planning. Users also have



access to a large library of commonly used 3D objects that can be added to the sketch, which can be printed or converted into a full 3D Lift Plan.

Rigging Design and Sketch Pad are available through Microsoft, Google Play, or the Apple App Store.

Source: A1A Software

A Wirtgen Group Machine Train on a 25,000 m² Landfill Construction Project in Germany

In the course of an extension program for a landfill site for demolition waste and contaminated soil in the north of the state of Hesse, Germany, the permanent sealing of the base was of vital importance. The construction of this impermeable liner prevents environmental damage through contaminated water seeping through deposited waste. A train of Wirtgen Group machines, comprising tractor-towed stabilizers, soil compactors, asphalt pavers and John Deere motor graders, took up the challenge.

The site was split up into 13 separate strips for the construction of the 330 m x 80 m landfill liner. A layer of crushed limestone hardcore followed by 4 25-cm layers of clay had to be placed on each of the strips and successively checked for impermeability. Following this, the liner was finished by paving 2 layers of a specially formulated landfill asphalt mix.

The core element of the landfill liner is the 4 layers of clay. The material, a mixture of clay and sand, was trucked to the landfill project from an extraction site 50 km away. In view of the time it took to truck the materials from source to site, and considering that the clay must not be allowed to get wet, carefully organized site logistics were absolutely essential.

As the scheduled placement of 1,200 t/d of clay-sand mixture could only take place in dry weather, the reliability, readiness, quality and performance of the equipment deployed all played a decisive role.

“We’ve had nothing but positive experience with Wirtgen Group machines for many years. On challenging jobs like this, it’s also a great advantage that we get the



machines and the service from the same people,” said Michael Huthwelker, master of crafts in road construction from Wachenfeld, lead contractor on the project.

After the material was unloaded on the site, it was spread by a dozer and a John Deere 622GP grader, which were then followed by a Wirtgen WS 250 tractor-towed stabilizer. Due to the aeration of the clay by the milling and mixing rotor of the WS 250, the ground needed no further improve-



ment by pre-spreading with lime or cement. On completion of this step, a Hamm 3414 HT P soil compactor compacted the freshly homogenized clay layer. It enlarged the surface area with its padfoot drum to accelerate the evaporation of the moisture contained in the clay. The John Deere grader now took over and leveled the strip. After an appropriate pause for drying, a

Hamm H 13i compactor with a smooth drum compacted the layers. The machine train repeated this sequence of earthworks for each of the 4 clay layers. In all, the train processed 52,800 t of the clay-sand mix in this manner.

A special aspect of landfill building projects is the construction of leachate drainage systems to minimize threats to the environment. Their task is to drain off contaminated water. At the landfill site in Hofgeismar, the leachate drainage system consists of a massive asphalt block. Here, a Vögele SUPER 1800-2 paver with a fixed width Vögele screed placed an asphalt package in 6 layers with an overall thickness of 36 cm at the exact center of the extension area. The run-off channel for the leachate was then milled into this asphalt block.

A Vögele SUPER 1800-3i paver with an AB 500 extending screed was also in use on the site for the subsequent paving of several layers of specially formulated landfill asphalt mix over the clay package. Such mixes are characterized by a higher percentage of bitumen and more fines that provides particularly high impermeability.

Thanks to the impermeable liner, the landfill is now ideally equipped for an environmentally friendly future with no leakage of harmful leachate.

Source: Wirtgen Group

InfraStructures

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reaches more heavy machinery and specialized equipment users in print and online than any other trade magazine in Canada.



Toyo Tires® Introduces Heavy-Duty M325 Tire

Toyo Tire U.S.A. Corp. recently introduced the Toyo M325, an on/off-road heavy-duty all position tire that delivers durability, retreadability and a high return on investment. The newest edition to the Toyo Tires M-Line of commercial tires, is the cornerstone of the company’s construction line providing full coverage for mixed service fleets serving the construction, mining, energy and logging industries.

Through several years of real-world testing in severe duty applications, Toyo Tires developed a sturdy casing with e-balance technology that minimizes service growth of the tread profile and maintains a uniform and flatter tread radius for the entire life of the casing. The M325 also features a wide footprint with specially designed stone ejectors in every groove and a cut-and-chip resistant tread compound. For fleets that demand an even tougher tire, there is the M325 CR in size 11R24.5 with an extra tough cut-and-chip resistant compound and rugged sidewall

protector for the most severe duty jobs.

“We worked with our dealers and their customers to create the M325 for the North American market,” said Dave Johnston, senior manager Commercial Products and Business Development for Toyo Tires.

“This development model means it was built with the market and the result is a tire that meets the needs of today’s modern construction and natural resource fleets.”

The all-new M325 on/off-road heavy-



duty all position tire is available now in 8 SKUs, including 425 and 385 wide base sizes.

Source: Toyo Tire U.S.A. Corp.

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IPAF's Don't Fall For It! safety campaign identifies key causes of falls from the platform, and provides advice about how to avoid associated hazards.

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New Product Solutions for Road Maintenance at GaLaBau

Unimog supports private sector and municipal enterprises in creating and maintaining green living spaces. Urban green spaces and sustainable private gardens are becoming more and more important in light of the effects of climate change. This is why GaLaBau, Europe’s leading trade fair for horticulture and landscaping in Nuremberg, was held last September 14-17, with the motto “*Together we are prepared for the climate of the future*”.

Mercedes-Benz Special Trucks, together with Unimog ExpertPartners Bucher Municipal and Mulag, demonstrated the performance of their Unimog-based work combinations and how these can help with climate protection at their joint stand with Mercedes-Benz Unimog general representative Henne Nutzfahrzeuge.

With 3 exhibition vehicles, Mercedes-Benz Special Trucks proves the importance of the Unimog equipment carrier for professional and environmentally friendly road maintenance:

The U 535 showcased attachments from Mulag to the trade fair. These make it a versatile partner for demanding green care tasks in road service. The combination mower, which has a front boom and verge mower, is used on the front mounting plate. It efficiently processes difficult areas of roadside greenery, for example, verges, depressions, ditches, and dividing strips or medians. The rear boom has a suction device for disposing of the resulting mowing in a cuttings trailer. Boom units can be upgraded with different implement variants to perform any number of tasks related to grass verge maintenance for summer service. The greenery maintenance head plays a special role in environmental protection. Its special cutting mechanism is scientifically proven to meet the requirements for insect and plant protection.



The U 327 combined spreading, cleaning, and snow clearing functions. This model also offers a platform suitable for transport and crane work. This vehicle from the medium-duty series is therefore

the ideal companion for municipalities, contractors, and service providers. Bucher Municipal showcased this vehicle with a telescopic snowplow and a spreader. The snowplow’s clearing width can be continuously adjusted hydraulically. It is also

equipped with a neoprene edging strip, which is extremely durable, low noise, and protects the road surface. The spreader features a twin-screw system, both with a salt and brine content of 50%. As shown, this means a dry volume of 2 m³ and a brine volume of 2,000 l. In addition, this series is capable of applying pure brine (FS-100 spreading method).

The U 219, in turn, marked the introduction to the world of Unimog equipment carriers. This vehicle is tailored to the needs of smaller enterprises and municipalities in particular. It can be deployed in any season, which means it can be fully utilized and operated economically. This is typified by the exhibition vehicle with its wet salt spreader design from Bucher and its Mulag boom with front hedge trimmer. The spreader has a dry volume of 1.6 m³ and a brine volume of 640 l. The twin-screw system allows for a very low tank design. This has significant benefits for the driver during work. On one hand,



drivers benefit from a perfect, all-round view thanks to the low tank height. On the other hand, the body’s low center of gravity means that the vehicle handles safely in all situations. With a working width of 2 m and a range of 7 m, the efficient front boom and attached hedge trimmer can be used to maintain trees, shrubs, and grass during the transition between summer and winter. A selection of more than 20 imple-

ments means the boom can be used all year round. A wide and attractive range of equipment is provided for the Unimog so that it can do its work perfectly. All commercial customers and the public sector can choose from 3 packages which combine essential options and offer price advantages compared to individual orders. Source: Daimler Truck Holding AG

CanLift Launches New Aerial Lift Equipment from XCMG

CanLift Equipment Ltd., an aerial equipment and material handling company located in Burlington and London, Ontario, recently announced it has expanded its product line to offer 9 new aerial lift machines from XCMG.

Offering long term reliability and superior quality with competitive pricing, the new aerial lift machines from XCMG are versatile and ideal for a range of projects. XCMG aerial work platforms are immediately available for sale and to rent.

“The new aerial lift machinery which is now available is an example of our commitment to our customers by bringing superior products with reduced lead times without compromising on quality or productivity,” said Geoff Grant, vice president of Sales. “With so many options to choose from, many customers have in the past opted for brands that haven’t met their needs or standards. XCMG is quickly being recognized as a game changer for its technology, features, and value added for businesses.”

The XCMG line utilizes the most



advanced automation manufacturing processes to ensure the highest quality, and compete with established manufacturers. This partnership expands into a whole new category of equipment available at CanLift.

The XCMG aerial equipment available includes scissor lifts, articulating booms and telescopic booms. Luckily, Canlift Equipment pre-ordered and secured build slots prior to the current global supply chain issues and have stock available,

making delivery windows much shorter than competitors.

CanLift is a Canadian company that has been proudly family-owned and operated since 2009 and is one of Ontario’s largest independently-owned lift equipment rental and sales companies. CanLift continues to grow their product line and provide customers with the highest quality equipment.

Source: CanLift Equipment Ltd.

2024 Chevrolet Silverado HD Hauls in More Power

Chevrolet brings everything heavy-duty truck customers want and need with the 2024 Silverado HD. The 2024 Silverado HD arrives with powertrain upgrades, a more commanding presence paired with an overhauled interior, enhancements to its available revolutionary trailering technology, and infotainment and active safety technology upgrades.



The lineup includes 2500HD and 3500HD models in Regular Cab, Double Cab and Crew Cab configurations. Dual-rear-wheel models are available on 3500HD. Highest trailering capacity of 16,330 kg is available on specifically equipped models.



For the first time, the proven Allison 10-speed automatic transmission is now standard equipment for both the standard 6.6-l V-8 gas engine and the available Duramax turbo-diesel. Its design optimizes grade braking with the gas engine, compared to the previous 6-speed transmission, with the closer gear ratios enabling greater engine-braking control.

With the 2024 Silverado HD, engineers have issued their latest upgrades to the

Duramax turbo-diesel engine. Horsepower and torque increase to an estimated 470 hp and 975 lb-ft, with final numbers pending SAE certification. Additional changes and upgrades were designed to produce a more efficient combustion.

Assembly production begins in the first half of 2023. Pricing and additional details will be released closer to the start of production.

Source: Chevrolet

Comansa Overcomes the Logistical Challenges of an Historic Project for the Indian Railway

A Comansa 21-t 21CM550 tower crane is working on the construction of Anji Khad Bridge, the first cable-stayed railway bridge in India, 331 m above the river. This is an historic project for the Indian railway and it is viewed as an engineering wonder thanks to the difficulties involved in the construction process and the technology used.

In January 2017, Indian Railways awarded Hindustan Construction Company (HCC) the contract to build a cable-stayed bridge for the prestigious Udhampur Srinagar Baramulla Rail Link Project (US-BRL) being developed by Konkan Railway Corporation Limited (a public company in India) to connect Katra and Reasi Station on the Jammu-Baramulla line.

Initially, an arch bridge was planned in Anji Khad but, in the end, an expert technical committee decided that the location was unsuitable for this kind of bridge and the decision was made to build a cable-stayed bridge with a single pylon standing



above the riverbed.
To respond to the demands of the



project and the challenge involved in constructing the pylon at such a remote,

complex site, HCC selected a 21CM550 flat-top crane, in Comansa's 2100 series, designed to ensure optimal performance in projects where particularly heavy loads must be moved, such as those in bridge construction.

Thanks to its easy assembly and smaller space requirements, the flat-top design patented by the crane manufacturer has overcome the logistical challenges linked to the complicated topography in the area. Additionally, the automatic trolley change, along with the Power Lift system, allows variable loads to be dealt with efficiently while ensuring the crane achieves maximum efficiency.

In addition to these logistical challenges linked to topographical aspects, Anji Khad Bridge is being built in a difficult terrain. This factor is not a problem either, given that Comansa cranes are equipped with a lightning protection system that has been designed to prevent damage to electronic



devices. Furthermore, they are designed to withstand wind pressure in accordance with European C25 standards.

In addition, Comansa is enjoying the collaboration of M/S Escorts Limited, its local partner in India, which allows it to use a trusted technical service and acquire spare parts as quickly as possible in order

to meet the project's demanding deadlines and open this great project in December 2022.

Source: Linden Comansa, S.L.

New Aluminium Recycling Plant in Hungary Breaks Ground

The groundbreaking ceremony on September 1st, marked the start of construction at Hydro's new aluminium recycling plant in Szekesfehervar, Hungary. The new facility will have a capacity of 90,000 t/y and is expected to start production in Q1 2024. The total investment is expected to be around €88 million (\$117 million) and will create about 80 new jobs.

The aluminium plant will be built alongside Hydro's aluminium extrusion plant in Szekesfehervar and produce advanced alloys for extrusions used in the premium automotive segment. Using only 5% of the energy originally needed to produce the metal, the plant will also provide customers with the opportunity to close the loop by taking back both production scrap and post-consumer scrap, which is recycled into new products.

"Recycled aluminium is becoming more and more important within the extrusion industry. This new facility is an important investment for a greener future and will strengthen Hydro's position as a leading supplier of high quality, low-carbon

aluminium to a market where demand for greener aluminum is accelerating," says Hilde Merete Aasheim, Hydro's president and CEO.

The Hungarian extrusion plant mainly serves automotive customers, and the ability to offer "closed loops" is helping carmakers and customers from other industries to reduce the carbon footprint of their products. Closed loop recycling uses and reuses materials that can be continuously recycled, without loss of qualities and with less energy or resources. This is where aluminium stands out.



From l. to r.: Mauro Spizzo, vice president, Hydro Extrusions East; Paul Warton, executive vice president, Hydro Extrusions; Tamás Vargha, member of parliament for the City of Székesfehérvár; State secretary and deputy minister of the ministry of Defence of Hungary; András Cser-Palkovics, mayor of Székesfehérvár; Hilde Merete Aasheim, president & CEO, NorskHydro ASA; Frank Iepema, managing director, Hydro Extrusion Hungary

In a closed loop, production scrap is collected and sent directly back to the recycling plant from manufacturers. With the recycling operation alongside the extrusion

plant, one transportation leg is removed, the supply chain is optimized, and waste is limited to a minimum. The recycled aluminium goes right back into the production of advanced car components.

"As automotive customers put more emphasis on greener solutions, we are taking this breakthrough step in Hungary to grow the market with advanced products and drive sustainability," said Paul Warton, executive vice president responsible for Hydro Extrusions. "We are increasing our recycling capacity in Central and Eastern Europe, ensuring reliable billet supply to our customers and creating possibilities of closing the loop by taking back and recycling production and post-consumer scrap."

"Our customers and their end customers

want products that demand less energy to produce, and that contain more recycled metal. By taking this next step in Hungary, with a state-of-the-art remelt plant using the best technology available, we will be able to produce recycled aluminium locally: Hydro RESTORE," said Frank Iepema, managing director of Hydro Aluminium Extrusion.

Hydro RESTORE is a range of aluminium products made locally from a combination of recycled pre-consumer scrap, recycled post-consumer scrap and primary aluminium. Once the scrap is collected, it will be melted, cast into a new billet at the recycling facility and return as input material for use in new products.

Hydro Extrusions is a world-leading aluminium extrusion business counting

around 100 production sites in 40 countries and employing 21,000 people. It can offer everything from standard profiles to advanced development and manufacturing for most industries.

Hydro Extrusion Hungary is Hydro's largest and most advanced extrusion plant in Europe, with 6 aluminium presses, several surface treatment technologies and over 300 fabrication machines. The 60,000-t plant is mainly growing in the e-mobility segment.

Source: Norsk Hydro

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Sustainable Hybrid Construction That Combines Wood Elements With Concrete

The Brüninghoff Group, a German element manufacturer favored prefabricated wooden wall elements made of Kerto® LVL for its new concrete element plant. The modern concrete element plant in Heiden, Germany, has an area of around 17,000 m². Metsä Wood's Kerto LVL L-panels and Kerto LVL T-studs have been used for the prefabricated non-load-bearing wall



elements. The high-quality wall elements completely cover the height of the hall giving it an attractive appearance while meeting strict standards of sustainability.



“Brüninghoff makes prefabricated wooden elements with a particular focus on products with a very high proportion of wood products – such as laminated veneer lumber. To this end, we carefully select partners that fit our sustainability strategy and who are reliable. In this context, we chose wall elements made of Kerto LVL from Metsä Wood for our new concrete element plant,” explained André Leipold, technical director of Brüninghoff Holz GmbH & Co.KG.

Sustainability was considered as early as the planning and construction phase of the new plant. That is why a hybrid construction structure with prefabricated external non-load-bearing wall elements made of Kerto LVL was chosen for the building. Metsä Wood's laminated veneer lumber is perfect for element manufacturing. It is also extremely material-efficient; it is needed less in volume compared to other wood materials and its strength-to-weight ratio is excellent.

“According to calculations using Carbon Storage Calculator, just the Kerto LVL used in the factory building stores a total of 165.8 t of CO2eq of carbon. This means that in comparison to other construction materials, wood is very sustainable,” explained Mr. Leipold.

The building has a total of 239 wall elements with an overall area of around 5,000 m². The elements were produced at the Brüninghoff element factory and are attached to a load-bearing concrete frame consisting of a hybrid structure.

The new concrete element factory does not just steer production towards sustainability, but also develops a consistently sustainable construction concept.

“Through this construction, we are forcing structural change towards construction that supports circular economy. Change is needed as the construction sector is responsible for consuming huge quantities of resources. It is a question of optimizing construction methods, developing low-emission concepts and increasingly backing recycling solutions,” explained Frank Steffens, managing director of Brüninghoff.

Source: Metsä Wood

Continental Acquires Vulk & Montage Group in Sweden

Continental recently announced it has acquired the conveyor and maintenance company Vulk & Montage, based in Karlstad, Sweden. This acquisition complements the portfolio of Continental and establishes the technology company in the heart of Sweden's industrial area.



Vulk & Montage has 4 locations in Karlstad, Örebro, Mora and Stockholm. The company is a leading service provider for the conveyor industry in central Sweden. Vulk & Montage provides add-on products such as belts, belt scrapers, industrial hoses, screens, wear rubber, lightweight conveyor belts, technical plastics and additional services like lining (cold and hot), spraying polyurethane, sandblasting, and paintwork.

Continental's Conveying Solutions is one of the world's leading specialists in conveying and off-highway solutions, with customers in key industries such as mining, agriculture, automotive and plant engineering.

Source: Continental, ContiTech

Rototilt Looks Back on Another Successful Excavator Hero

With Excavator Hero 2022 recently coming to a close, Rototilt and winner Steve Lafontaine talked about engagement and experiences.

Excavator Hero is the social competition from tiltrotator manufacturer Rototilt that challenges excavator operators from around the world to show off their skills using Rototilt products in a home video. After 3 rounds of voting with the public, Steve Lafontaine of Almonte, Ontario, was named Excavator Hero of 2022.

“I was surprised and excited when I found out my video had been chosen. I never thought I would make it all the way to the top position and being crowned Excavator Hero,” he said. “The support I received from my community, Liebherr Canada and specifically from my friends and family has been nothing short of amazing.”

In his video, Steve Lafontaine shows both daily tasks with his tiltrotator as well as some odd ones. At one point he

shows of his precision skills by picking up a pair of gloves with his grapple module and handing them to his coworker. Apart from the title of Excavator Hero, Mr. Lafontaine received €10,000 (\$13,200) to spend on a Rototilt product of his choosing. He also won a visit to the company's factory and headquarters in Vindeln, Sweden, in September. A trip where he joined 5 other Excavator Heroes.

“I'm looking forward to the trip to Sweden as I have wanted to visit the Rototilt manufacturer ever since I purchased my first tiltrotator”, said Steve Lafontaine.

In total, 6781 votes were cast during this year's edition of Excavator Hero. Jack Sklenar, Social Media manager at Rototilt, is happy about the engagement from followers both on the Excavator Hero site and on social platforms.



“The engagement from the community has been incredible. During the competition we've had over 15,000 visits on the competition site,” said Mr. Sklenar. “It's great to see that it's getting attention and that people are having fun with it. We're excited about the future of Excavator Hero and look forward to seeing Steve here in Sweden soon.”

Source: Rototilt Group AB

Hiab Completes Range of Electric Truck-Mounted Forklifts

Hiab, part of Cargotec, launches the MOFFETT E8 NX to complete the eSeries of all-electric truck-mounted forklifts. It is a specialist model for demanding and heavy-duty tasks and can lift loads up to 3,500 kg.

It is the strongest truck-mounted forklift in Hiab's range and easily masters both rough terrain and difficult-to-reach jobsites – transferring loads quickly and safely through busy yards and building sites.

“The MOFFETT E8 NX truck-mounted forklift offers performance, power and maneuverability. It is ideal for a wide range of uses across different environments and the all-electric drive offers several benefits. Because it is emission-free and near silent, it is perfect for use indoors, in low-emission zones and in places where noise is a concern – like residential areas and when it is late at night. Besides the environmental benefits and extended business opportunities, our eSeries models offer an overall reduced total cost of ownership compared with our conventional truck-mounted forklifts,” said Jann Hansen, vice president, Sales & Product Management, Truck-



Mounted Forklifts, Hiab.

The total cost of ownership is lower than the equivalent diesel model as it can be electrically charged and has reduced service costs. It is engineered with fewer moving parts, which reduces service time and spare parts costs. Purchasing a ProCare™ contract for the MOFFETT unit can help reduce service costs and increase the uptime further.

The MOFFETT E8 NX has a redesigned hood for better visibility and several

safety features such as LED lights/beacon, interlocking seat belt and dash controls that are easy to reach from the operator seat. As it is near silent, it is also easier for the operator to hear what is happening around the forklift.

Customers can select from a wide range of E8 models options to tailor the truck-mounted forklift best suited for their needs, and all have access to Hiab's HiConnect™ service.

Source: Cargotec Corporation

New Bull Hog Mulcher Designed for Compact Excavators

Fecon recently introduced the FMX28 Bull Hog Mulcher for compact excavators. Designed for 3.5 to 8 t compact excavators with hydraulic flows from 45-150 l/min, the FMX28 is optimized for those in the 3.2 to 4.5 t range. This new mulcher model features 14 flippable knife tools on a bite-limiting split ring rotor to achieve a 71 cm cutting width. Aftermarket carbide tools are available for ground engaging applications. Ideal as an entry level vegetation management tool, the FMX28 can replace workers wielding chainsaws and hand crews, making the technology much safer and more productive, especially when working on slopes. The unique rear throat design ensures that no unprocessed material is left behind, thus maximizing productivity when sweeping along the ground. Capable of mulching overgrowth, underbrush, and small trees to 12 cm in diameter, it is ideal for clearing property lines.

The Fecon FMX28 expands the versatility



of compact excavators by allowing them to be used on a wide variety of vegetation management projects.

Weighing in at 340 kg, the FMX28 features a compact body design, and a downward front discharge mitigates thrown debris. Designed to efficiently mulch while maintaining high rotor RPMs, this new model quickly spools up to maximize recovery and minimize downtime. A

variable displacement piston motor drives a polychain anti-slip belt for increased torque. A smooth cutting chamber increases material flow while minimizing power draw.

Source: Fecon, LLC



Manulift Breaks New Ground With the TurboFarmer 65.9

In an effort to lighten the ever-increasing burden of handling and moving heavy loads in all industries, Manulift is establishing itself as a performance gas pedal with the TurboFarmer 65.9 from world-renowned equipment manufacturer Merlo.

Thanks to its mixed use, the Merlo TurboFarmer 65.9 will meet all the challenges in terms of handling and moving very heavy loads.

“This telescopic handler is a tool that will allow us to increase our productivity tenfold on a daily basis,” said Michael Waldner of Truss Community in Manitoba, who owned the very first TF65.9 unit long before its official arrival in Canada.

This new piece of machinery will meet the growing needs of his company, which manufactures and stores huge prefabricated roof structures.

The HF (Hi-Flow) models are equipped, as standard, with a new joystick developed to improve ergonomics, reduce operator fatigue and increase daily productivity.

They are equipped with the latest generation of Merlo’s hydraulic spool valves,



combined with a high flow hydraulic pump. Also, the quick change of attachments, with the hydraulic clamping system called Tac-Lock, greatly improves efficiency as well as the natural comfort of use.

Already present in agriculture and construction in Canada, Manulift wants to conquer new niche markets with the TurboFarmer 65.9. With a view to making

its product line more accessible, Manulift also offers its customers adapted financing facilities, taking into account the most advantageous financial structure in terms of tax savings and/or protection of working capital and optimization of cash flow.

Source: Manulift E.M.I. Ltd.

Ground Stabilization Works for Cycle Path Construction

The construction of cycle paths is a hot topic in Italy. In fact, the country needs to make up for the lost time of recent years and remedy the shortage in this type of infrastructure, which attracts increasing numbers of visitors every year.

In response, many Italian provinces and local authorities are investing to construct new paths or connect and improve the accessibility of existing ones. The “Bicitalia” project, which covers every region of Italy and aims to create a unified national cycle route, is perhaps the most representative example.

The Province of Padua constructed a 32-km section to form part of the “Walled Cities Circuit”, which connects the towns of Monselice, Este, Montagnana, San Salvaro, Merlara and Vighiozzolo d’Este. The circuit was partially completed in 2020.

F.A.I. Srl, a company based in Fossò, Veneto, specializes in construction, asphalt, waste transportation and rail and forestry works, was awarded the public contract,



along with Ecovie Srl and Girardini Costruzioni Generarli Spa, to conduct the roadworks on this section of the cycle path which was completed in July 2022. The works are conducted using a multitask FAE MTM/HP machine paired with a DEUTZ-FAHR 9340 TTV tractor.

The site was completely covered by vegetation. After the surface material was removed, soil sample analysis dictated the

use of a stabilizing layer of 0-20 mm gravel to the soil and a layer of cement. At this point the FAE MTM/HP was used to consolidate the earth in 2 successive passes.

A 200-t iron/rubber roller compacted the earth several times, and once the surface was perfectly even, a mixture of bitumen and gravel was applied to offer a very natural “gravel effect” suitable for bicycles.

Source: FAE GROUP S.p.A.





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Appointments

Toyo Tire U.S.A. Corp. recently announced that **Rob Lovi** has been promoted to vice president of sales beginning August 22, 2022. Previously serving as the director of sales, national strategic accounts, Mr. Lovi's promotion is a part of the company's succession plan following the appointment of Mike Graber to president and CEO earlier this year. Rob Lovi first joined Toyo Tires as a director of sales in July 2018 and brings nearly 18 years of tire industry experience to the role.



"Rob Lovi has been an integral part of our team since joining us in 2018," said Mike Graber. "As Toyo Tires continues its rapid growth in the U.S., his sales leadership and extensive experience within the tire industry will help support our future goals and serve our dealers well. We are thrilled to have him assume this new role with us moving forward."

A graduate of Concordia University with a degree in Economics, Rob Lovi has previously served in management at Michelin North America and as vice president of sales and marketing for Vector Fleet Management, LLC.

Source: Toyo Tire U.S.A. Corp.

has also been instrumental in helping with the development of FIDIC's North American regional grouping."

Source: FIDIC, the International Federation of Consulting Engineers

Eagle Crusher Co., Inc. is announcing that **Mike Tinkey** has been promoted to president of the company, effective immediately. Mr. Tinkey previously served as CFO since joining Eagle Crusher in 2002. Susanne Cobey, who previously served as president, will remain as CEO of the company. Previously Mike Tinkey served as CEO, Holbrook & Manter, Inc.; CFO, Ohio Industries, Inc.; and accounting and audit manager, Ciuni & Panichi, Inc.



Eagle Crusher manufactures a full line of heavy-duty crushing and screening equipment for the recycle concrete, asphalt, aggregate, and sand and gravel industries, including the Eagle Crusher line of heavy-duty impact crushers, portable crushing and screening plants, jaw crushers, hammermills, and conveyors.

Source: Eagle Crusher Co., Inc.

FIDIC (the International Federation of Consulting Engineers) has named **Catherine Karakatsanis** from Canada as its new president elect and announced the arrival of 2 new board members in Manish Kothari from the U.S. and Alfredo Ingletti from Italy. The announcements were made, following a decision of the FIDIC board and elections by the membership, announced at the 2022 FIDIC general assembly meeting which took place in Geneva on September 13, 2022 following the conclusion of FIDIC's annual Global Infrastructure Conference.



Ms. Karakatsanis is the COO at Morrison Hershfield Group, a diversified consulting engineering and management firm. She also serves on the firm's board of directors. After joining Morrison Hershfield as a structural engineer, she successfully moved through a series of technical and management positions. Based in Toronto, Ontario, Catherine Karakatsanis is responsible for more than 900 professionals in 25 offices across Canada and the U.S. and one in India.

"I am absolutely delighted to welcome Catherine Karakatsanis as FIDIC's new president elect," said FIDIC chief executive Dr Nelson Ogunshakin. "I'm especially pleased that Catherine is now set to be FIDIC's first ever woman president of FIDIC in 2023 and I'm confident that Catherine's ascension to the presidency will encourage increasing diversity and inclusion within FIDIC and the wider industry. Since her election to the board 2 years ago, Catherine has played a key role at committee level and she

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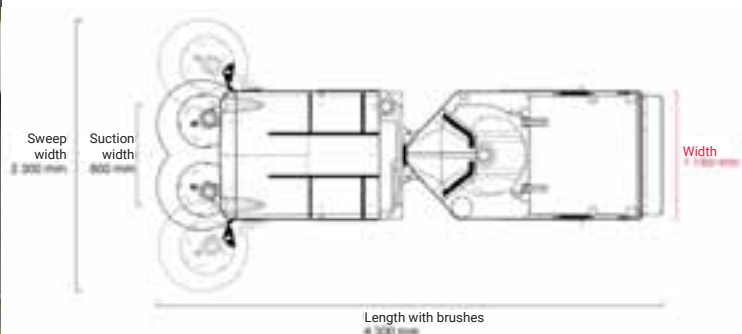
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MEP Innovation Conference

The National Electrical Contractors Association (NECA), the Mechanical Contractors Association of America (MCAA), and the Sheet Metal and Air Conditioning Contractors' National Association (SMACNA) have partnered together to host the 2023 MEP Innovation Conference.

This 3-day event will include innovative presentations, collaborative roundtable discussions, and hands-on exhibitor demonstrations highlighting the recent technologies that can improve mechanical, electrical and plumbing engineering (MEP) contractors' productivity and profitability.

With over 30 breakout sessions, 5 demos, 4 general sessions, 3 facility tours, and plenty of networking opportunities, this is a pivotal event to learn from the industry's best & brightest!

Register now to network with peers from multiple trades across the country and to learn about industry advancements and the future of the MEP trades, January 11-13 in Austin, Texas.

Source: National Electrical Contractors Association (NECA)

Canadian Exhibitors at Bauma

Axiomatic Technologies.....	A2.449	Soucy International	A6.520
AutomaCAD	B1.102	Sure Grip Controls.....	C4.342
Bartell Global	A1.239	Thor Global Enterprises	B2.132
Birmingham Foundation	C2.340	Ultra-Span Technologies.....	B1.313
Black Cat Wear Parts	A6.115	Valley Blades.....	A6.517
Bron	C4.740	InovForest Forestry Equip..	C2.226-4
CarbonCure Technologies..	C1.404/7		
CM Labs Simulation	C2.226-1		
Delta-Q Technologies	A4.115		
Dixie Electric.....	C2.226-3		
Famic Technologies.....	A3.127		
Flexxaire	A4.402		
Giatec Scientific	B3.302		
Les Produits Gilbert.....	FN.723/5		
K-Tec	C6.312		
Lubecore International	C2.226-2		
McCloskey International...	FS.1211/1		
Movex Innovation.....	B5.325		
Rotobec.....	B5.229		
Patton & Cook	C3.331		
RAD Torque Systems.....	A1.516		
Sensors & Software.....	A2.613		

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Munich, Germany

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Agenda

Equip Exposition / Hardscape North America
October 18-21, 2022
Louisville, KY USA

inter airport FOCUS
October 20-21, 2022
Berlin, Germany

bauma
October 24-30, 2022
Munich, Germany

bauma

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

Work Truck Week
March 7-10, 2023
Indianapolis, IN USA

CONEXPO-CON/AGG
March 14-18, 2023
Las Vegas, NV USA

CONEXPO-CON/AGG

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

steinexpo

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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