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Spring is drawing to a close, and so is the local exhibition season. Some of you will have the chance to attend demopark, Europe's leading green industry event, which takes place on June 22-24 in Hörselberg, central Germany. In the meantime, we'll soon be exhibiting at the AORS Municipal Public Works Show, taking place June 4-5 in Woodstock, Southern Ontario - come and see us there at booth #430.

With all that activity, is there any way you can keep up to date on products, technology, and techniques that can make your job more efficient or profitable? Of course you know the answer to such an obviously rhetorical question, you're reading it!

Whether you are flipping through our pages on your break or online at the office, InfraStructures has everything you want to know. We even have our online archive, going back to the mid 1990s. You can have a laugh at the "Bygone Ways".





On the cover: Founded in 1985 in Sherbrooke, Quebec, Georocfor is dedicated to producing innovative products that increase productivity in the drilling field. The company offers 9 different systems depending on the job in hand. Along with the Xs Drill system, Georocfor also manufactures standard and specialty rock drill bits, demolition tools for boom mounted breakers and related products.

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The upcoming June/jJuly issue will again focus on engines, components, parts and service. Don't hesitate to send us your press releases, photos and announcements. InfraStructures publishes industry news for the benefit of our readers, who are active everywhere, from the Atlantic to the Pacific, in the Arctic, and even around the world.

#### HEXAGON TO ACQUIRE CONET COMMUNI-CATIONS ASSETS TO STRENGTHEN PUBLIC SAFETY CAPABILITIES

Hexagon AB recently announced an agreement to acquire the Unified Communications Radio Suite (UCRS) software assets of CONET Communications GmbH (CCOM), part of CONET Group, to complement its public safety platform.

UCRS is a high-performance communication solution for control centres capable

of integrating diverse channels such as Private Branch Exchange (PBX) and mobile phone networks, digital radio, business information systems, public address systems, video surveillance (CCTV), video conferencing, and satellite communication infrastructures. Combining UCRS with Hexagon's public safety platform will provide agencies with a fully integrated command-and-control solution from one vendor. Successful customers such as

the Kassel Fire Brigade already benefit from the combined Hexagon and CONET offering.

"Seamless communication is an essential part of emergency response. Public safety agencies must be able to communicate with responders in a variety of ways, making the addition of CCOM's product suite a natural extension of Hexagon's technology stack," said Norbert Hanke, interim President and CEO, Hexagon. "This acquisition strengthens our ability to serve public safety customers today while accelerating innovation for the future."

CCOM's UCRS solution, supported by around 50 employees, will be reported within Hexagon's Safety, Infrastructure & Geospatial division and is expected to generate revenues of around ~10 MEUR in 2025 with margins similar to SIG averages. Completion of the transaction is subject to regulatory approvals and other customary conditions and is expected to be finalised by the end of Q2 2025. Source: Hexagon AB

TILTPRO JOINS THE OPEN-S ALLIANCE The initiative to create an open industry standard for automatic couplers for excavators, headed by the independent organization Open-S Alliance, is strengthened as TILTPRO Corp. becomes a member. More and more manufacturers and companies are seeing the value of offering the customers products with a standardized interface, the benefits and flexibility that it brings to the customers. With the addition of TILTPRO Corp. to the list of members the Open-S standard continues its international growth.

Founded in 2021, TILTPRO Corp. is a Korean manufacturer of rotating couplers, tilt couplers, and tiltrotators. Known for its innovation, the company enhances performance, durability, and efficiency in excavator attachments. With a dedicated R&D center, TILTPRO focuses on developing reliable solutions and improving jobsite productivity. TILTPRO joins the Open-S Alliance as an Associate member.

"Joining Open-S is in line with our policy of putting customer value first. For the benefit of our customers, we will commit to a unified open interface from Open-S and provide customers with standardized and highly functional quick couplers to enable the use of different attachments. By applying Open-S technology to our rotating couplers, tilt couplers and tiltrotators, we will be able to further innovate our customers' working environment", said Byong-Kyu Min, CEO at TILTPRO Corp.

The Open-S Alliance strives to give machine owners and contractors the freedom to combine couplers, tiltrotators and work tools for excavators from different manufacturers following the Open-S standard. The open interface defines hydraulic couplers and ensures that a combination of products from different manufacturers will not interfere with or alter the safety solution of each individual product. A standard helps to simplify work at the construction site, making it possible for contractors to have the most flexible use of their machines.

"Companies join the Open-S Alliance because they are convinced about the benefits for the customers with an interface standard that makes the handling of attachments easier. It means that they will be able to meet customer needs even more effectively in the future. We welcome TILTPRO as a member, and look forward to continue promoting an open standard within our industry together", said Anders Jonsson, chairman of the board of Open-S Alliance.

Source: Open-S Alliance AB

#### WORK TRUCK WEEK 2025: MORE THAN 16,000 GATHERED IN INDIANAPOLIS FOR INDUSTRY'S BIGGEST EVENT

Work Truck Week® is More Than a Trade Show<sup>®</sup> – in fact, many regular attendees describe it as the commercial vehicle industry's annual reunion. Work Truck Week 2025 was the biggest reunion yet, bringing together a verified 16,413 industry professionals from 31 countries March 4-7 in Indianapolis, Indiana. Work Truck Show exhibit space was sold out, with 549 companies filling the exhibit hall and pavilion with the latest vehicles, equipment and technology.

Produced annually by NTEA – The Work Truck Association<sup>™</sup>, Work Truck Week encompasses The Work Truck Show<sup>®</sup>, Green Truck Summit, NTEA Annual Meeting, Ride & Drive, educational program and more. It is designed to provide industry professionals with opportunities to explore the latest trucks, trends and technology and connect with the people and companies they need to thrive.

Work Truck Week will return to Indiana

Convention Center March 10–13, 2026. Established in 1964, NTEA – The Work Truck Association<sup>™</sup> represents more than 2,100 companies that manufacture, distribute, install, sell, and repair commercial vehicles, truck bodies, truck equipment, trailers and accessories. Buyers of work trucks and the major commercial truck chassis manufacturers also belong to NTEA. The Association provides in-depth technical information, education, and member programs and services.

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#### ENVIRO'S RECOVERED CARBON BLACK CENTRAL TO ANVA'S LAUNCH OF CLIMATE-NEUTRAL RUBBER COMPOUND

Scandinavian Enviro Systems' (Enviro) recovered carbon black has been used by Swedish rubber and plastic manufacturer AnVa to develop climarub, one of the world's first completely climate-neutral rubber compounds.

"The launch clearly demonstrates the great commercial value of recycling in achieving climate neutrality," said Fredrik Emilson, CEO of Enviro.

Climarub is a further development of the rubber compounds that AnVa previously developed based on Enviro's recycled carbon black and which have been used to manufacture high-performance rubber components for leading players in the Swedish automotive industry. The automotive industry is undergoing a comprehensive sustainability transformation and strives to phase out fossil solutions in everything from powertrains to constituent materials.

"Climarub shows that there are now functioning materials that can fully replace fossil counterparts. The demand for Enviro's recovered carbon black and oil remains high, and we constantly meet new customer inquiries due to the desire to manufacture products with low climate footprints at competitive prices," said Fredrik Emilson.

Since 2016, AnVa has received commer cial deliveries of recovered carbon black extracted from end-of-life tires at Enviro's plant in Åsensbruk. The delivered carbon black has been used by AnVa to produce high-performance rubber components, including more than 200 million chassis plugs, battery seals, etc., for leading players in the Swedish automotive industry.



InfraStructures English Edition May 2025 - page 4

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Source: NTEA - The Work Truck Associa

By using Enviro's recycled carbon black, the components could be produced with significantly lower climate footprints. According to AnVa, the company has reduced its emissions by over 2,000,000 kg of carbon dioxide equivalents thanks to the use of Enviro's recovered carbon black.

Enviro, together with the French infrastructure investor Antin Infrastructure Partners and with the support of tire manufacturer Michelin, has formed the joint venture company Infiniteria. Infiniteria is establishing the first full-scale recycling plant in Uddevalla based on Enviro's patented pyrolysis technology.

Source: Scandinavian Enviro Systems AB

#### FAYAT GROUP EXPANDING FAIRFIELD COUNTY OPERATIONS

FAYAT Group recently announced it is expanding its Road Equipment Division operations in Fairfield County, South Carolina. The company's US\$13.7 million (\$19 million) investment will create 75 new jobs.

Founded in France in 1957, FAYAT, through its Road Equipment Division, produces and assembles equipment for all steps of the road lifecycle - asphalt production, application, compaction, road maintenance, sweeping, cold milling, stabilization and recycling - as well as airport vehicles. The company operates in 170 countries and has more than 23,000 employees worldwide.

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"FAYAT moved its BOMAG North American headquarters to Fairfield County just over 10 years ago to leverage several strategic benefits - being close to port of entry, proximity to an air hub for spare parts distribution, and offering the opportunity for year-round sales and service training - for the purpose of being closer to and better serving our customers. The fact that FAYAT is once again investing in Fairfield County by nearly doubling its footprint is testament to the successful implementation of this decision and the talent and dedication of the workforce," said Rob Mueckler general manager, FAYAT Road Equipment Division.

FAYAT will construct a new 9,300-m<sup>2</sup> parts distribution facility to improve its aftersales support for customers throughout North America. The expansion will also allow FAYAT to increase its localization of production for road machinery at an existing facility in Fairfield County.

Operations are expected to be online in Q4 of 2025.

Source: FAYAT Group

#### HEXAGON LAUNCHES ROBOTICS DIVISION TO DRIVE NEXT-GENERATION AUTONOMY

Hexagon recently announced the launch of a new Robotics division, leveraging its industry-leading expertise in measurement technologies, Al and autonomous systems to advance humanoid robotics and help its customers achieve true autonomy.

Advancements in Al, simulation, and reinforcement learning are unlocking the potential of robotic systems, allowing them to become more autonomous and navigate intricate environments and accomplish complex tasks. As a market leader in measurement technology and sensors essential for navigating complex environments, Hexagon is well placed to drive further progress by providing spatial intelligence and digital twins that enable robotic systems to learn, interact with their surroundings and take action.

"Robotics has always been a core innovation pillar at Hexagon," said

Norbert Hanke, interim president and CEO, Hexagon. "From total stations and drones for construction to laser trackers for manufacturing and off-road autonomy for mining and agriculture, we have continuously pioneered accurate autonomous systems leveraging robotics. Today, we are taking the next step by creating a dedicated robotics division to leverage investments we have made over the last few years and develop autonomous solutions to complement a shrinking, ageing, and changing workforce."

Hexagon's Robotics division will focus on industrial applications. By leveraging its proven track record in manufacturing, automotive, aviation, energy, warehousing, and logistics markets, Hexagon is uniquely positioned to respond to the growing demand for highly capable, versatile robots.

To lead this new division, Hexagon has appointed Arnaud Robert as president of Hexagon's Robotics division. A global strategic leader with 25 years of experience and a deep background in Al, Mr. Robert has successfully led business transformations across six industries, launched global



products, and scaled several businesses from inception to becoming significant profit centres. He has a PhD in computer science from the Swiss Institute of Technology Lausanne (EPFL). Arnaud holds over a dozen patents and has received multiple industry awards.

"Hexagon is the world's leader in measurement technology and positioning solutions, which will be a key differentiator in this fast-growing market," said Arnaud Robert. "I am honoured to lead this groundbreaking division alongside the team and build autonomous robotics solutions that leverage the most recent advances in robotics and AI with the goal of redefining efficiency, intelligence and automation across several industries. We will continue to push innovation further to help our customers achieve their full potential and contribute to a sustainable future."

As president, Mr. Robert will lead the R&D, product, commercial, operations, partnerships, and support functions and drive the next phase of Hexagon's robotics innovation. He will report to Norbert Hanke, interim president and CEO, and will be a member of the Executive Management team.

Source: Hexagon AB

#### **PROGRESSIVE PLANET SECURES FINANC-**ING FROM BC'S INNOVATIVE CLEAN **ENERGY FUND TO ADVANCE POZGLASS** PILOT PLANT

Progressive Planet recently announced it has been awarded a \$1,140,000 grant from the British Columbia Innovative Clean Energy (ICE) Fund, supporting the continued development of its revolutionary PozGlass<sup>™</sup> pilot plant.

PozGlass<sup>™</sup> represents a breakthrough in low-carbon cement technology, transforming post-consumer glass into a high-performance supplementary cementitious material (SCM). This funding represents another significant milestone as the company scales its solution to address cement's substantial carbon footprint.

"This grant, alongside funding announced earlier this month and our strategic partnership with Lafarge Canada, is helping accelerate the transition to a lower-carbon cement industry," said Randy Gue, director, at Progressive Planet. "These investments are not just financial - they are a signal that industry leaders and government agencies recognize the potential of PozGlass<sup>™</sup> to scale and make a meaningful impact."

Cement production accounts for over 7% of global CO<sub>2</sub> emissions, and sources for traditional SCMs like fly ash and slag are transitioning out. With Lafarge Canada already committed to purchasing all PozGlass<sup>™</sup> produced at the pilot plant, Progressive Planet is well-positioned to scale a viable, made-in-Canada solution that supports both industry and the environment.

Progressive Planet's Kamloops, British Columbia-based pilot plant is set to begin operations in October 2025, marking a key step toward scaling PozGlass<sup>™</sup> production and accelerating its adoption across North America and beyond. The first phase of operations includes dry processing of postconsumer glass to remove contaminants and create coarse glass powder - the key ingredient in PozGlass<sup>™</sup>.

Source: Progressive Planet

#### HYUNDAI PRESENTS ACTION PLANS FOR WASTE-TO-HYDROGEN ECOSYSTEM

Hyundai Motor Group recently outlined

action plans to establish a waste-tohydrogen (W2H) ecosystem in West Java Province, Indonesia, during the Global Hydrogen Ecosystem Summit held in Jakarta.

At the summit, Hyundai unveiled comprehensive plans for the initiative in partnership with Indonesia's Ministry of Energy and Mineral Resources (ESDM), Ministry of National Development Planning (BAPPENAS), and PT Pertamina (Persero), an Indonesian state-owned energy company.

Hosted by the Indonesia Fuel Cell & Hydrogen Energy Association (IFHE), the event was attended by key stakeholders, including the minister of Energy and Mineral Resources (ESDM), representatives from the ministry of National Development Planning (BAPPENAS), and executives from Pertamina and Hyundai Motor Group During the event, ESDM presented Indonesia's national hydrogen roadmap, while BAPPENAS outlined hydrogen policies for Nusantara, the country's new capital city. As part of the initiative, Hyundai will establish an on-site hydrogen refueling

# **FLEETS HAVE SWITCHED TO VMAC'S G30** JUST ASK OUR CUSTOMERS:



station using Pertamina's existing compressed natural gas (CNG) infrastructure, targeting operational launch by 2027. The station will be supplied with low-carbon hydrogen produced from biogas sourced at the Sarimukti landfill near Bandung, the capital of West Java Province.

Following the completion of a technical feasibility study on Sarimukti landfill development, the Group plans to commence construction this year. To bring Korea's advanced hydrogen policies and technologies into the project, the Group is supporting the effort through a consortium of leading Korean organizations and companies.

The roadmap underscores significant advancements in the Group's commitment to sustainable hydrogen solutions, as highlighted by its senior management at events in Indonesia and abroad. It also aligns with the objectives of Indonesia's central government ministries and is reflected in the country's National Hydrogen and Ammonia Roadmap.

The Sarimukti landfill in Indonesia handles about 80% of the 1,500 t/d of waste generated in Bandung. In recent years,

"Before I got the G30, I had another air compressor that would start half the time and stall out constantly." - Ben



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neighboring communities have faced repeated natural disasters - including large-scale fires, floods, and landslides - driven by the ongoing effects of global warming and increasingly extreme weather conditions.

Reaffirming its corporate social responsibility (CSR) commitment, the Group has partnered with Good Neighbors to improve local access to drinking water and healthcare. Collaborating with Sejin G&E, the Group plans to secure the Sarimukti landfill, preventing disasters and ensuring safety, while extracting biogas for lowcarbon hydrogen production via Hyundai

Rotem's steam methane reformer.

The robust partnership between Hyundai and Pertamina has paved the way for the development of a comprehensive hydrogen ecosystem covering land provision for refueling stations, hydrogen production and transport, and vehicle utilization.

With strong support from key Indonesian government bodies, this collaboration not only addresses urgent waste management challenges but also lays the groundwork for low carbon hydrogen production.

Building on its successful W2H model in Korea, the Group is launching its first overseas initiative in Indonesia. Following

# **Sandvik Becomes Global Distribution Partner for Sleipner**



Sandvik Mining and Rock Solutions recently announced it has become a global distribution partner for Sleipner. The strategic collaboration aims to improve customer satisfaction by offering integrated solutions that boost productivity and reduce operational costs. The opportunities provided by the partnership are available worldwide, with the exception of Canada.

Sandvik customers will have the opportunity to purchase Sleipner's mobility solutions alongside Sandvik's surface drill rigs as a complete package. Sandvik Financial Services will offer flexible financing options, allowing customers to take advantage of Sandvik Finance on bundle deals.

"This partnership with Sleipner allows us to offer even more complete solutions for our customers," said Petri Virrankoski, president of Surface Drilling at Sandvik. "This also aligns perfectly with Sandvik's sustainability strategy by helping us reduce emissions caused by the use of our machinery, where the biggest share of emissions in our value chain are produced, while increasing productivity."

"Sandvik is a natural choice for a global distribution partner for Sleipner, due to the synergies our combined solutions offer," said Jukka Koponen, CEO of Sleipner. "We are confident that Sandvik's customers will benefit greatly from our mobility solutions. We are on a common mission to make mining more sustainable and improve customers' competitiveness."

Source: Sandvik Mining and Rock Solutions, Sleipner Finland Oy

the completion of its vehicle manufacturing plant in March 2022, Hyundai has strategically positioned Indonesia as a key gateway to the broader ASEAN market.

Hyundai has previously partnered with governments in Chungju, Cheongju and Paju cities in Korea to advance its resourcecirculating hydrogen business. Building on the success of the existing waste-tohydrogen plant in Chungju, the Group is expanding the initiative with new facilities set to open later this year and next, utilizing organic waste and sewage sludge.

In January 2024, at CES in Las Vegas, Hyundai introduced its W2H roadmap for Indonesia, which focuses on producing hydrogen from organic waste. The initiative is being carried out under the Group's dedicated hydrogen business brand, HTWO, which leverages its comprehensive expertise across the entire hydrogen value chain, from production and storage to transportation and utilization.

Source: Hyundai Motor Group

#### **BURCKHARDT SECURES ORDER FOR MD10-L** DIAPHRAGM COMPRESSOR PACKAGE IN SWEDEN FROM MAJOR GAS PLAYER

Burckhardt Compression, a global leader in reciprocating compressor technology, has been awarded a contract in Sweden by a major gas player to deliver its MD10-L compressor package for hydrogen trailer filling applications. The order underscores Burckhardt Compression's commitment to advancing hydrogen mobility and energy infrastructure.

The MD10-L compressor package is a fully standardized, skidded, and containerinstalled solution designed for highpressure hydrogen applications, including trailer filling operations. Its pre-tested, plug-and-play design ensures ease of integration, transportation, and setup, aligning with the customer's requirement for rapid deployment. The package is scheduled for delivery within 2025, meeting the project's ambitious timeline.

Key features of the MD10-L compressor package include:

- High Efficiency: Capable of handling up to 500 normal m<sup>3</sup>/h of hydrogen, matching pressurized electrolizer capacities of 2 to 2.5 MW at 30 or 40 barg.

- Oil-free Compression: Ensures the highest hydrogen purity, compliant with SAE J-2719 standards, essential for fuel cell applications.

- Safety and Compliance: Certified with ATEX explosion-proof classification, guaranteeing safe and reliable hydrogen compression without leaks.

This contract highlights Burckhardt Compression's ability to deliver innovative and reliable solutions tailored to the evolving needs of the hydrogen energy sector. The company's dedication to quality and customer satisfaction continues to drive its success in supporting the global transition toward sustainable energy.

Source: Burckhardt Compression AG

#### CEMEN TECH LAUNCHES ACCU-POUR™ LATEST FEATURES AND HIGHLIGHTS FULLY-ELECTRIC MIXER

Cemen Tech recently launched the latest version of ACCU-POUR<sup>™</sup> fleet management software with new features. As part of the platform, customers can now request guotes, track orders, and view invoices through a digital portal. This cloud-based productivity solution connects the office, dispatch and volumetric mixer fleet, allowing near real-time flexibility to adjust schedules while maintaining a constant workflow.

ACCU-POUR provides complete control over scheduling with driver- or officebased electronic dispatching. Users can track equipment location and material usage to make proactive decisions, helping maintain workflow regardless of location. The software also generates digital batch tickets and invoices for completed jobs, ensuring accurate and timely invoicing.

ACCU-POUR reduces manual data entry by storing schedules, batch tickets, and invoices digitally. It tracks production data and generates reports based on mixer output. Integration with Cemen Tech C Series mixers, including the C60, automates data recording, boosting productivity and reducing errors.

Data in ACCU-POUR 2.0 can be downloaded directly from the fleet management system or via an Application Programming Interface (API) to gain full access to all of your data, allowing you to integrate your data with other systems.

The latest version ACCU-POUR fleet management software will be available in early 2025 with seamless data transfer from existing ACCU-POUR platforms or from an application programming interface (API).

Since June last year, Mix Master

International has been operating the first electric volumetric mixer, delivering zeroemission concrete production throughout the Netherlands. This innovation between Volvo and Cemen Tech supports customers facing strict sustainability mandates on job sites, including city and municipal projects requiring electric vehicles.

"The addition of electric volumetric mixers not only allows us to be more sustainable but also helps more customers meet sustainability regulations," said Connor Deering, CEO and president of Cemen Tech. "More city and municipal governments are mandating electric trucks on projects, especially in urban centers where zero-emissions are critical and many construction sites are adopting stricter policies."

"Sustainability is a top priority for us, and we're proud to use our CO2-neutral, fully electric volumetric concrete mixers. Our 7<sup>th</sup> volumetric mixer is almost ready, and the next one will be fully electric as well. We're excited to meet the growing demand from our clients while continuing





to support sustainable practices in the industry," commented Toon van de Haterd, director of Mix Master International.

Debuted at WOC 2024, the CD2 dual bin volumetric mixer will be on display in Booth C5150. This unit is going to Global Optics, a fiber optics installation contractor based in San Antonio, TX. The fully automated volumetric concrete solution simplifies meeting Department of Transportation (DOT) standards with a split bin for cement and supplementary materials like fly ash. The CD2 offers quick transitions between jobs with the ability to start and stop mixing as needed. It ensures product quality with consistent, uniform mixes that meet the strict requirements of municipalities. The unit can change mixes on demand, handle after-hours outages or emergencies, and only mixes what's necessary, reducing waste and environmental impact. By removing the need for third-party vehicles, it minimizes traffic and neighborhood disruptions while keeping projects on schedule.

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Source: Cemen Tech Inc.

# **CGA Conference & Expo Highlights Risks of Damage to Buried Infrastructure**

Common Ground Alliance (CGA), a North American nonprofit association dedicated to protecting underground utilities, recently concluded its 2025 Conference & Expo in Orlando, Florida. With 1,600 damage prevention leaders in attendance, the conference is the largest gathering of its kind in America.

CGA celebrated its 25<sup>th</sup> anniversary this year, returning to Orlando after its successful Conference & Expo in 2023. Attendees included senior leaders from 16 key industries including utility companies, oil and gas pipeline operators, construction, equipment manufacturing, state 811 call centers, and underground locating technology companies such as Verizon, Honeywell, Rust-Oleum, 3M, Sunshine 811, and others. April is also National Safe Digging Month across the U.S.

More than 190,000 times each year, buried power, water, natural gas, internet, and other utility lines are damaged by digging across the U.S., costing the US\$30 billion (\$40 billion) annually. Nearly 26,000 times each year, buried utilities are damaged

in Florida - almost 71 times each day, making Florida the #1 state for damage to underground infrastructure.

Damage to buried utilities has led to road collapses, water main breaks, service disruptions like 911 outages, and injuries and fatalities.

"As we celebrate this milestone of 25 years of damage prevention insights, our Conference & Expo this year reflected

on the past by looking towards the future of solutions, innovations and partnerships to reduce the buried utility damages that risk lives, property and disruption to communities and businesses," said Sarah K. Magruder Lyle, president and CEO of the Common Ground Alliance and executive director of the Damage Prevention Action Center. "We thank Orlando for the warm welcome back, and we're grateful to the attendees and sponsors who are helping

us raise awareness of what's at risk and how to protect the critical buried infrastructure on which all Americans rely.

The Damage Prevention Action Center the industry's advocacy arm - met to discuss key state and federal issues impacting damage prevention.

This included the Promoting Innovation in Pipeline Efficiency and Safety (PIPES) Act, legislation in Congress that would allocate funding for protecting buried infrastructure. The legislation has found bipartisan support, including from U.S. Representative Dan Webster (R-FL), chairman of the House Subcommittee on Railroads,



Pipelines, and Hazardous Materials,

Attendees received insights from acting administrator Benjamin Kochman of the U.S. Pipelines and Hazardous Materials Safety Administration (PHMSA) on the Trump Administration's drive to unleash American energy to safely serve American communities, as well as inspiring remarks on creativity from acclaimed journalist, bestselling author, and award-winning tech and media entrepreneur Shane Snow as



the keynote speaker. The Conference & Expo hosted more than 50 interactive educational sessions on topics including pipeline safety, the role of Al in damage prevention, excavator education and more.

Nearly 9,300 m<sup>2</sup> of exhibit space – the conference's largest-ever and the equivalent of nearly 2 football fields - showcased the latest technology for safely digging, locating and installing fiber/broadband, water, gas, power and other underground utility lines. Examples include GPS-enabled ground-penetrating radar devices, vacuum excavation equipment that allows digging using compressed air or high-pressure water and cloud-enabled handheld subsurface mapping equipment.

CGA also recognized top leaders in the industry through prestigious industry awards. James Holland, COO at Kinder Morgan, accepted the president's Award of Corporate Excellence. Sandra Holmes of Arizona 811 and Scott Brown of Washington Gas were inducted into the CGA Hall of Fame. This year's Groundbreaker Award honored Jai Kalavil of the Chicago Department of Transportation/Chicago 811. Source: Common Ground Alliance



# **Vortex Europe Achieves DIBt Certification for Quadex**<sup>®</sup> **GeoKrete®** Geopolymer

Vortex Europe GmbH, a division of U.S.-based Vortex Companies, a specialist in trenchless infrastructure rehabilitation, recently announced that its Quadex GeoKrete Geopolymer has received the prestigious DIBt (Deutsches Institut für Bautechnik) certification under approval number Z-42.3-612. This certification officially authorizes the use of GeoKrete for the protection and rehabilitation of wastewater infrastructure in Germany, reinforcing its reputation

as a proven solution in the European trenchless industry.

The DIBt certification confirms the quality, durability, and environmental compliance of GeoKrete geopolymei mortar,



ensuring it meets Germany's stringent construction standards for corrosion resistance and structural rehabilitation in wastewater environments. Designed to restore deteriorated infrastructure, GeoKrete provides exceptional resistance to biogenic sulfuric acid corrosion, significantly extending the lifespan of critical waste-

water assets. This achievement further validates GeoKrete's quality, following its meeting Europe's stringent XWW-4 requirements and receiving WRc certification. With several hundred million pounds already applied on large diameter pipes, culverts, manholes, and other structures, GeoKrete has proven its effectiveness around the globe.



GeoKrete is a fully structural and corrosion-resistant geopolymer formulated from industrial byproducts and monocrystalline guartz aggregate, making it an environmentally friendly solution for rehabilitating aging wastewater systems. It can be applied using hand troweling, wet spraying, or centrifugal spraying, ensuring versatility across various rehabilitation projects.

Source: Vortex Europe GmbH







Association of Ontario Road Supervisors

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# AWS Announces Release of D1.1/D1.1M:2025. Structural Welding Code – Steel

The American Welding Society (AWS) recently announced the release of D1.1/ D1.1M:2025, Structural Welding Code -Steel (D1.1/D1.1M), the latest edition of AWS' flagship structural welding code. Originally developed in 1928 as the "Code for Fusion Welding and Gas Cutting in Structural Steel" to standardize welding in building construction applications, D1.1/ D1.1M has since become the globally recognized benchmark for structural welding requirements. Almost a century later, it remains the welding industry's definitive resource for engineers, fabricators, and inspectors.

The D1.1/D1.1M code outlines requirements for welded structures made from carbon and low-alloy constructional steels, providing essential guidelines that influence the design, fabrication, qualification and inspection of steel structures worldwide. The 2025 edition includes key updates that reflect advancements in materials, techniques, and industry best practices.

"D1.1/D1.1M has been the foundation of structural welding for close to a hundred years adapting to industry innovations while maintaining its quality and precision," said Jennifer Molin,



inspection, and fabrication.

- Clarifications and modifications to existing provisions to improve usability. - Updates based on industry feedback and
- evolving best practices D1.1/D1.1M:2025 is now available for
- purchase both in hard copy and as a digital download through the AWS Bookstore.
- Source: The American Welding Society

## **Bentley Systems Partners with Google to Improve Infrastructure Through Asset Analytics**

structural welding.

Bentley Systems, Incorporated recently announced new asset analytics capabilities that leverage Imagery Insights from Google Maps Platform to rapidly detect and analyze roadway conditions. Unveiled at Google Cloud Next 2025, the new capabilities in Bentley's Blyncsy product offering, which applies AI to crowdsourced imagery for automated roadway asset detection and inspection, will help infrastructure professionals improve roadway maintenance and support disaster recovery.

Bentley and Google announced a strategic partnership in October 2024 to integrate Google's high-quality geospatial content with Bentley's infrastructure engineering software to improve the way infrastructure is designed, built, and operated. The unique Imagery Insights combination of Google Street View, Vertex AI, and Blyncsy will enhance the ability of departments of transportation, and the engineering firms and consultants supporting them, to identify areas of concern and analyze changes in the condition of roadway and

transportation assets over time.

The addition of Google Street View's global panoramic imagery allows Bentley to provide highly detailed analysis of as-

Director, Standards Committee Opera-

tions. "This latest edition ensures that the

industry has access to the most current

guidelines, reinforcing best practices in

Key Highlights of D1.1/D1.1M:2025:

sifications and welding procedures

- Enhanced guidelines for weld quality,

- Comprehensive updates to material clas-

sets along with visual references, while Google's Vertex AI adds the ability to build and maintain models to alert transportation agencies





of changes to infrastructure assets before they become safety hazards. In addition to supporting roadway maintenance activities, these capabilities can also aid in disaster recovery efforts, providing a cost-effective solution for conducting rapid damage assessments, which can help

360° imagery and AI will further enhance the value Bentley provides to transportation departments and engineering firms globally. The expansion of our relationship with Google will enable us to further develop our growing infrastructure asset analytics capabilities-initially in the trans-

# **Alfa Laval Expands Its Hygienic Valve Portfolio** for Enhanced Safety, Efficiency and Reliability

Alfa Laval is expanding its hygienic valve portfolio by introducing the Unique SSV Pressure Relief Valve and the Leakage Detection Butterfly Valve, alongside new smaller sizes of the Unique Mixproof CIP and Unique Mixproof Process valves. By broadening its range, Alfa Laval reaffirms its commitment to providing reliable, high-performing solutions that ensure safe processing, protect product integrity, and safeguard consumers while addressing the evolving needs of the hygienic industries.

"By prioritizing product and equipment safety in combination with efficiency and reliability, we continue to support manufacturers in the dairy, food, beverage, and home and personal care industries," says Paw Kramer, Portfolio Manager, Valves and Automation at Alfa Laval. "These additions provide manufacturers with greater flexibility to customize valve solutions to meet their processing requirements."

Prevent overpressure with the Alfa Laval

Unique SSV Pressure Relief Valve When peak performance under pressure is critical, the Unique SSV Pressure Relief Valve protects hygienic processing lines, particularly those with positive displacement pumps, from overpressure. Paired with and powered by Alfa Laval ThinkTop® technology for valve monitoring and control, it safeguards process efficiency, productivity and safety. Pressure relief setpoints are easy to adjust onsite to accommodate changing conditions. Built on the proven SSV platform, this modular valve shares spare parts with other Unique SSV valves, simplifying maintenance and reducing service costs. Fully CIP-able regardless of the pressure setting, the valve ensures reliable hygiene and performance while

minimizing downtime. Product safety and efficiency are the hallmarks of this straightforward Leakage Detection Butterfly Valve. When powered by an Alfa Laval ThinkTop for

portation sector with other industries to follow," commented Mark Pittman, director of Transportation AI at Bentley.

"Businesses and cities have long relied

on the fresh and comprehensive information from our maps to get insights about the world. As our strategic partner, Bentley combines industry-

leading infrastructure solutions with Google's leading AI and mapping technologies, like Vertex Al and Street View, to bring powerful analytics to public and private sector leaders who need mobility insights for making more informed decisions," added Yael Maguire, Google's vice

president and general manager for Google Maps Platform & Google Earth. Blyncsy is part of Bentley Asset Analytics, a portfolio of products that generate

insights into the condition of existing infrastructure assets to optimize their performance. Google's Imagery Insights will be generally available in Blyncsy in 2025. Source: Bentley Systems





valve monitoring and control, it enhances reliability due to real-time valve monitoring and control. Integrated leakage detection enables rapid response to potential issues, maintaining performance. A single seal, disc and actuator make the valve compact and lightweight while reducing installation, operating, and maintenance costs. Fully CIP-able, the valve guarantees more uptime, continuous operations, longlasting performance, and energy, water and cleaning media savings.

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Alfa Laval is also extending its Unique Mixproof range with two new sizes — 1" (DN25) and 11/2" (DN40) - of the Unique Mixproof CIP and Mixproof Process valves. These smaller double-seat mixproof valves offer high cleanability, pressure resistance, and adaptability to meet diverse hygienic processing needs. With these new sizes, manufacturers can easily integrate more compact CIP skids, valve matrices and dosing lines into hygienic processing lines while maintaining the safety that mixproof valves deliver.

The latest additions to Alfa Laval's valve portfolio demonstrate our commitment to meeting the evolving needs of industries where safety, efficiency and reliability are paramount. With the Unique SSV Pressure Relief Valve, Leakage Detection Butterfly Valve, and smaller Unique Mixproof CIP and Process Valves, Alfa Laval continues to provide practical, high-quality valves that enhance operational performance across a broad spectrum of applications. Source: Alfa Laval

# The Next Level of Platforms at bauma 2025

PALFINGER aerial work platforms provide safe and efficient access to great heights across multiple applications, ranging from window cleaning and building

maintenance to traffic light repair and tree pruning. With the TEC range offering a working height of 19 to 28 m, PALFIN-GER has implemented numerous performance



improvements, weight optimizations and introduced a newly developed modular component system. Also, all TEC models are ready for electric drive, allowing customers to opt for a hybrid variant or a heavier all-electric chassis. modularity making maintenance easier than ever. We are now offering a new level of platforms tailored to our customers' needs," said Alexander Susanek, COO at PALFINGER. "In 2024, we reopened our German Löbau site as the European hub

"With the 4 models of our new TEC

range of aerial work platforms that we are

presenting at bauma, we have put a lot of

effort into performance improvements and

for our aerial work platforms, with a strong focus on the new TEC range. To support this, we have optimized key parts of our manufacturing lines, enhancing production



efficiency and accelerating the development of our expertise on-site.

The enhanced TEC range offers more power and less weight for improved efficiency – for all chassis and weight classes ranging from 3.5 to 10.5 t. The entire TEC

# **More to Come in Upcoming Issues!**

June/July	mechanical components, engines and undercarriages deadline May 30	February	
August	snow removal equipment, winter maintenance	March	
September	cranes, aerial work platforms and materials		
	handling deadline August 20	April	
October	waste collection, reclamation and recycling		
	deadline September 25	May	
November	landscaping and compact equipment		
	deadline October 30		
December/January	concrete and demolition		
	deadline November 30		



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range fully complies with European GSR 2.0 safety regulations that aim at improvingvehicle safety standards. Modular components across all 4 models streamline maintenance, reduce service times, and minimize downtime, making repairs more cost-effective. Weight optimization, higher basket loads, reinforced materials and improved ergonomics allow safe operation with a sensitive and precise control due to the intuitive control system.

When developing the TEC range, PALFINGER placed a strong emphasis on creating a sustainable solution for customers - both ecologically and economically. PALFINGER's battery pack options enable electric operation of the platform for a typical workday, allowing for emission-free performance on-site. With this technology, the truck engine remains switched off during platform operation, ensuring reduced emissions and minimal noise. This not only lowers emissions and noise levels but also preserves the engine, extending its lifespan. Additionally, this technology opens up new deployment opportunities, such as in cities with strict emission regulations, noise-sensitive areas like hospitals, or for indoor use - further improving overall efficiency and return on investment.

Especially for rental businesses, maximizing operating times and increasing productivity are crucial for economic success. The key lies in maximum flexibility and utilization - one aerial work platform can be used for multiple applications - and the guality of the components, which ensures product durability. PALFINGER's smart approach to simplifying maintenance particularly in the TEC range – makes it a reliable and cost-effective solution for this industry. Also, PALFINGER CONNECTED plus helps maximize uptime and efficiency by providing fleet managers with access to real-time usage insights and remote diagnostics.

The PT 28 T and PT 22 TJ made their global debut at bauma 2025, pushing the limits of what is possible in the 3.5 t class. The PT 28 T is one of the few aerial work platforms in its category to offer a fully electric operation of the platform while reaching a working height of 28 m – delivering unparalleled performance with the lowest emissions. The PT 22 TJ installed

on an IVECO eDaily is a highly compact and versatile telescopic platform due to increased load capacities and enhanced operational performance. With its innovative jib design, it ensures greater flexibility and precision, making it an ideal solution for urban and industrial applications where space and accessibility are limited.

The PT 25 TJ is PALFINGER's most powerful 3.5 t aerial work platform with increased performance and higher stability. A key factor for more performance is the increased lateral reach, which ensures more versatility. The improved ergonomics reduce operator fatigue and increase concentration, resulting in greater productivity on the job. Revised and precise control, along with the further developed automatic stabilization system ensures greater convenience while maximizing operational efficiency. Whether for daily tasks or specialized projects, this model delivers reliability and performance where they're needed most.

"When developing our Aerial Work Platforms, we listen closely to our customers and transform their feedback into tangible improvements. The PT 25 TJ exemplifies this approach with increased performance and enhanced ergonomics. With these innovations, we are not only delivering higher performance today but also ensuring that our products are ready for the challenges of tomorrow," added Mr. Susanek.

As one of the first manufacturers to mount an aerial work platform on a Ford chassis, PALFINGER is setting a new industry benchmark with the PT 19 TJ on the 4.25-t Ford eTransit, showcased as a future innovation at bauma. This innova-



tion combines full-electric mobility with the performance of a compact aerial work platform, offering increased payload for tools and equipment. This makes the PT 19 TJ a city centre professional: working quietly, sustainably and efficiently.

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PALFINGER's aerial work platforms combine the latest technology with the highest performance. With working heights ranging from 13 to 90 m, the portfolio includes both non-insulated and insulated platforms, mounted on chassis from 3.5 to 48 t. Whether bucket trucks, articulated platforms or telescopic models – PALFIN-GER offers suitable solutions for a wide range of applications.

As a globally operating company, PALFINGER understands the specific challenges and requirements in different markets, industry segments, and applications. With a focus on electrification, digitalization, robust materials and functional design, the aerial work platforms are engineered to deliver long-term safety, reliability and efficiency. A global service network ensures professional support and a consistent customer experience.

Source: Palfinger AG

# **Remu Introduces New Jaw Crusher Buckets**

Remu Oy, a Finnish manufacturer of excavator attachments, recently added a new range of Crusher Buckets to its portfolio. They are designed to revolutionize processing especially in construction.

Manufactured in-house with premium Hardox steel, powered with Rock-Zone technology, this durable and efficient equipment comes as a response to the increasing demand and inquiries from customers seeking reliable and highperformance crusher solutions.

The jaw crusher bucket is engineered to crush rock, concrete, and asphalt, providing users with an effective way to recycle and reuse construction materials. By integrating this equipment into operations, customers can reduce waste, lower costs, and contribute to sustainable practices in the construction and demolition industries. Designed for durability and efficiency this crusher bucket boasts low maintenance requirements, ensuring minimal downtime and maximum productivity for users. Remu's commitment to quality and

innovation that enhance worksite efficiency and sustainability are seen on this addition yet again.

"We are thrilled to introduce this full range of crusher buckets in co-operation with Rock.Zone. This addition to our product portfolio directly addresses the needs of our customers. By manufacturing it ourselves along with Rock.Zone technology, we ensure top-notch quality and performance while offering a practical solution for material recycling," said Juha Salmi, CEO at Remu.

Remu is one of the world leaders in excavator attachment manufacturing. Based out of Europe, but with a firm foothold in North America and Australia the company offers top-notch

products such as screening, crushing, and padding buckets. Remu also manufacture pontoon undercarriages for excavators to

enable dredging and excavation work in the most challenging environments. Source: Remu Oy

## **International Introduces the Next Evolution** in Electric Vehicle Offerings

At ACT Expo, held April 28-May 1 in Anaheim, California, International Motors, LLC introduced an all-electric Class 8 regional haul tractor, the International<sup>®</sup> eRH<sup>™</sup> Series.

Designed to meet the demands of heavy-duty regional and drayage fleets, the eRH Series is available in 4x2 and 6x4 axle configurations, and offers a range of up to 500 km, depending on configuration, battery capacity, and use.

Built on the proven foundation of the diesel-powered RH Series, the eRH is optimized for productivity in local and regional haul applications. It features a 113" BBC measurement for optimized forward visibility, as well as industry leading wheelbases for tight turning radius. These, along with the Bendix Fusion integrated driver assistance system, provides for safer road operations. The ergonomic design provides ample space and conveniently grouped switches for ease of use.

The eRH comes with lithium nickel manganese cobalt (NMC) battery configuration

options ranging from 300 kWh to 500 kWh usable battery capacity, providing high energy density in a compact space. This also allows the eRH to come packaged with low curb weight, which maximizes payload and profit for the customer.

The tandem and single eAxle configurations reduce the complexity and maximize efficiency of the vehicle drivetrain. This results in lower total operating costs while providing peak and continuous power with optimal performance. The eRH offers three levels of driver-selectable regenerative braking, extending range while allowing drivers to best suit their needs.

International offers consulting services to assist customers throughout the acquisition process, including infrastructure readiness, onboarding, and grant support. International planned maintenance Service Contracts are designed to ensure that



customers' operating, maintenance, and service needs are met and supported by an extensive dealer network.

International<sup>®</sup> Financial offers competitive loan and lease financing options for electric vehicles, chargers, internal combustion-powered vehicles and more. Additionally, International Financial offers an exclusive Payment Program for International Service Contracts, enabling customers to make affordable monthly payments over the term of the contract, with no finance cost.

Source: International Motors, LLC

# **Ricardo's Hydrogen Fuel Cell Module Reaches Full Power**

Ricardo, a global strategic, environmental, and engineering consulting company, recently announced a significant milestone in clean energy innovation with its new high-powered, multi-stack hydrogen fuel cell module technology successfully reaching 393 kW of net electrical power, achieved within 3 months development from initial start-up.

This achievement was made possible due to Ricardo's virtual engineering toolchain, which reduces physical prototyping costs and risks, accelerates development timelines, and provides a deeper understanding of system behaviours under diverse conditions.

Initially developed as part of the Sustainable Hydrogen Powered Shipping (sHYpS) Horizon Europe project for the maritime sector, Ricardo's multi-stack hydrogen fuel cell module is designed to deliver high energy output with zero emissions. Its modular architecture integrates multiple fuel cell stacks to provide unmatched power density, and scalability while

meeting the evolving energy demands of diverse applications, such as maritime, stationary power generation, rail and off-highway.

"This is a pivotal moment for hydrogen technology," said Andy Ennever, Ricardo Global Head of Fuel Cells. "By reaching this milestone and completing a full transient ship operation test cycle, our multi-stack hydrogen fuel cell technology demonstrates hydrogen's potential as a clean energy source. It also showcases Ricardo's expertise in designing and engineering the fuel cell module entirely in-house within the timeframe set out by Horizon Europe and achieving sustained maximum power after just 3 months of development after the initial switch-on." To support the adoption of hydrogen technology, Ricardo has also developed a containerized solution, able to combine multiple fuel cell modules, enabling power output to be scaled up to 3 MW per container, with the DC-DC power conversion on board, all without sacrificing

# **Cleaning of Large Photovoltaic Surfaces**

Contactless, efficient, sustainable - at Intersolar, held in Munich, May 7-9, 2025, the Fraunhofer-Institut für Digitale Medientechnologie (Fraunhofer IDMT) presented a new approach to cleaning large photovoltaic (PV) systems using structure-borne sound.

The soiling of photovoltaic modules leads to a loss of up to 20% in yield. But how can large-scale and hard-to-reach photovoltaic systems be effectively cleaned of dust and sand without wasting too much water or damaging sensitive module surfaces? The "AkSoRe" research project aims to provide a leading-edge answer to this question. The project partners Silberform AG and Fraunhofer IDMT exhibited an initial demonstrator. The 3<sup>rd</sup> partner in the research project is J.v.G. Technology GmbH, being responsible for the design of suitable solar energy systems with its expertise in that field.

At the heart of the project is a novel process for cleaning PV modules using tar-



geted mechanical vibrations. The technology uses structure-borne sound to remove soiling such as dust or sand from the module surfaces without contact - completely without water or mechanical abrasion and with virtually no maintenance.

"Our goal is to make energy generation from PV systems even more sustainable and efficient," explained Andreas Män-



efficiency or durability. When scaled up to incorporate multiple fuel cell modules housed within two bespoke containers, a total net electrical plant output of 6 MW can be delivered. This is sufficient to power a 50,000 t 1,000 passenger cruise ship through important zero-emission mission cycles.

Source: Ricardo plc

nchen project manager at Fraunhofer IDMT.

The AkSoRe research project is funded by the German Federal Ministry for Economic Affairs and Climate Action (BMWK) as part of the Central Innovation Program for SMEs (ZIM) until June 2027. Source: Fraunhofer IDMT

# **Vögele Presents New Road Pavers and Material Feeders**

At bauma 2025, the market leader will be presenting 3 world premieres of the new machine generation: the wheeled paver SU-PER 1803-5 X-Tier, the Mini Class paver SUPER 800-5 P-Tier, and the material feeder MT 3000-5 in standard and offset versions. As with all machines in the Dash 5 family, Joseph Vögele AG focuses on user-friendliness, automation, cost-effectiveness, and sustainability.

With the SUPER 1803-5 X, Vögele presents the first wheeled paver of the new generation. In combination with the Dash 5 extending screeds AB 500 and AB 600, it offers operating widths between 2.55 m and 8.25 m and is extremely versatile. The powerful Universal Class representative of the new generation now combines the advantages of a wheeled paver - high maneuverability and great mobility during relocation - with the advantages of the Dash 5 machines: greater ease of operation, automated processes, shorter set-up times, and low noise and exhaust emissions.

With the enhanced operating concept ErgoPlus 5, Vögele offers a better overview, more convenience and storage options, improved ergonomics, and an optional touch display for digital applications. The new Paver Access Control (PAC) function makes it easy to switch the SUPER 1803-5 X on and off from the ground. In addition, the Light Package Plus option ensures greater safety and reduced set-up times on night-time construction sites. With

automatic functions such as Grade Assist for paving roof and transverse profiles, the automatic steering and width control



At bauma 2025, Vögele presented the SUPER 1803-5 X-Tier – the first wheeled paver of the Dash 5 generation.

system AutoTrac, or the Smart Pave digital control system, the new paver makes life easier for users - and increases efficiency and quality at the same time.

In addition to the SUPER 1803-5 X, Vögele is presenting a newgeneration Mini Class paver for the first time at bauma, the SU-PER 800-5 P. In combination with the extending screeds AB 200



and AB 220, it offers operating widths between 0.5 m and 3.5 m - making it ideal for narrow construction projects. Compared to its predecessor, the Dash 5 model also incorporates numerous new features.

A major advantage of the new mini paver is the optimized material hopper. First, both hopper walls can now be adjusted hydraulically. This allows the best possible position to be set depending on the material feed. The asymmetrical setting, for example for working along a wall, can now be implemented on both

sides at the touch of a button. In addition, the hopper walls of the SUPER 800-5 P can be folded in two. This gives the operator an unrestricted view to the front, making it easier to maneuver and load the new Dash 5 paver.

Vögele has optimized the operator's platform so the SUPER 800-5 P offers an even better view of all areas relevant for the work. As before, the new ErgoBasic operator's control console can be moved horizontally. In addition, its angle can now also be adjusted in four stages and ergonomically adapted to the height of the operator. The ErgoBasic 5 operating concept



The new SUPER 800-5 P-Tier mini paver from Vögele offers better visibility and more convenience.

follows the operating logic of the larger machines but has been specially adapted to the mini paver. For the first time, the operator's console incorporates a display that allows the operator to view the machine's operating data. In addition, Vögele has fully integrated the operation of the Auto Grade Basic system for automated grade and slope control into the machine control system. This means that screed operators can now control the SUPER 800-5 P compactly via a console, just like the large Vögele pavers. A new storage system with a tool and drink holder, coat hooks, and 24-V socket for mobile devices also ensures organization and convenience.

Vögele has also brought its material feeders up to Dash 5 level: Both models, the MT 3000-5 Standard and the MT 3000-5 Offset with a swiveling conveyor belt, are equipped with the new ErgoPlus 5 operating concept, numerous additional convenient features, and the optimized PaveDock Assistant truck communication system. Thanks to the new Dash 5 control technology, the material feeders can also be integrated into the digital solutions from Vögele in future.



InfraStructures English Edition May 2025 - page 18

MT 3000-5 Standard and Offset: In addition to the new road pavers, Vögele has also upgraded its material feeders to Dash 5 level.

Both models offer a conveying capacity of up to 1200 t/h and can pick up the full load of mix from a truck within 60 s. The clever material conveying concept with a large receiving hopper and effective conveyor belt heating enables fast unloading and gentle conveying of the mix. Cooling and segregation are reliably prevented. The material feeders are also extremely maintenancefriendly and easy to transport: The drive-on angle and receiving hopper have been specially optimized for transport by a low-bed trailer.

Source: Wirtgen Group



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# **The Ideal Compact Milling Machine for Urban Projects**

reduces fatigue and makes the operator's

enclosed cabin provides a workplace in line

work much more comfortable. The fully-

Two projects on one day: a W 120 Fi in Berlin, Germany, demonstrates its versatility, outstanding performance, and the high level of comfort its fully-enclosed cabin offers its operator.

The work schedule of the milling crew called for the deployment of the contractor's W 120 Fi compact milling machine on 2 construction sites in the same day – in the center and on the outskirts of Berlin. Milling services provider Enrico Feind deploys this model primarily for projects

in sensitive urban locations. The machine unites maximum performance, versatility, maneuverability, and low-vibration working with outstanding operator comfort, and it completed both jobs in the shortest possible time.

The W 120 Fi is a big favorite of the milling crews because the Comfort Cabin



vides protection against weather and noise emissions, and keeps dust and dirt out of the operator's workspace. The state-ofthe-art operator's platform on the compact milling machine could also demonstrate the full breadth of its advantages on the two project sites in Berlin.

The outstanding maneuverability and

compact dimensions of the cold milling machine make it the ideal choice for milling at inner-city sites. On the first job of the day in particular, near Berlin's Potsdamer



Platz, where the milling crew had to work in an extremely tight space: the street is narrow and runs between office blocks and over an underground parking garage. Due to this tricky situation, removing 2 layers by milling required a particularly delicate touch. Thanks to its combination of a high-powered engine and low weight, the



March 25-27, 2025.

DynaWare completely overhauled of the user interface, electronics, hardware, and software, bringing the Falling Weight Deflectometers up to date with the latest industry standards.

Operators can now preplan data collection routes with enhanced geographic information systems (GIS), streamlining the data gathering process.

The new system includes cloud-based remote control, support, and data verification, thanks to the 4G router capabilities. This enables seamless remote data upload and real-time monitoring.

A redesigned control unit and robust IP67 camera housings improve machine



interfacing, providing high-guality imaging inspection and reducing the need for complicated wiring.

Featuring embedded intelligence, geophones offer automatic fault detection and optimized placement for precise data capture, allowing for effortless setup and calibration. This solution has been patented.

The innovations within DynaWare are safeguarded by patents, ensuring the

exclusivity and security of its groundbreaking technology.

Dynatest designs and produces pavement testing equipment and software that meets the evolving needs of modern infrastructure. Dynatest's commitment to innovation drives it to provide top-tier service, software and pavement testing equipment that enhance safety and improve infrastructure. Source: Dynatest

W 120 Fi is exactly the right machine for a job like this. Its environmentally-friendly engine technology and smart assistance

#### FACTS AND FIGURES – PROJECT DETAILS

Project in Berlin-Mitte			
Completion time:	3 hours		
Area: 65.5 m x 5.80 m			
Asphalt pavement removal:	2 layers, 350 m <sup>2</sup>		
First layer:	10 cm		
Second layer:	5-8 cm		
Constructional features:	Gutters on both sides		
Road bed:	Crushed stone		
Project in Berlin-Marienfelde			
Completion time:	1.5 hours		
Dverall asphalt surface area: 200 m <sup>2</sup>			
ndividual areas/removal:	40 m²/4 cm		
	126 m <sup>2</sup> /12 cm		
Road surface area:	50 m x 5.40 m		
Constructional features:	4 gate valves		

systems allowed the milling project to be completed in a precise, cost-efficient, and

Immediately after its innercity job in the central borough Berlin-Mitte, the machine was loaded up for the 30 km trip to the next job - this time in Marienfelde, on the outskirts of the city. Here, the milling machine processed an area of around 200 m<sup>2</sup> between fields and meadows.

emissions.

Two such different construction sites on the same day are no problem at all for

# **Platform**

JLG Industries, Inc., an Oshkosh Corporation business, recently announced that customers can now source parts for AUSA wheeled dumpers, rough terrain forklifts and compact telehandlers, purpose-built for the residential, civil and road construction industry and the transportation and handling of industrial and agricultural materials, through the industry-leading JLG® Online Express eCommerce platform.

Following the acquisition of AUSA in September 2024, JLG has completed a comprehensive system integration that will provide AUSA equipment owners with seamless access to a robust online parts ordering experience.

"Access to parts is critical to maintaining uptime, and bringing AUSA parts into Online Express represents a significant improvement in service for our customers," said Bob Nelson, vice president and general manager, JLG. "With this move, AUSA customers can take advantage of JLG's expansive parts distribution network, streamlined parts ordering process,

improved delivery times and local customer support in North America."

JLG's Online Express offers convenient 24/7 access to the industry's largest inventory of OEM and competitive parts using a desktop or mobile device.

"This integration provides AUSA customers with a faster, more efficient way to find and order the parts they need, improving service and minimizing equipment downtime," he added.

AUSA parts orders are now processed exclusively through Online Express. Customers who do not yet have a JLG account are encouraged to complete the necessary credit application to ensure

sustainable manner. In automatic mode, the innovative MILL ASSIST machine control system optimizes the milling process by consistently selecting the most favorable balance between performance and cost. The result? Improved machine performance, high efficiency, lower fuel consumption per ton of milled material, and a significant reduction in CO<sub>2</sub>



the W 120 Fi. The highly-maneuverable machine is extremely productive, easy to transport from site to site, and can be quickly reconfigured for a wide range of milling tasks. The second construction project was also completed within the space of around 90 min.

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Source: Wirtgen Group



uninterrupted access to parts ordering. Source: JLG Industries, Inc.

# **SAKAI Localizes Production of SV204 Soil Compactor** from Japan to Georgia

SAKAI America recently announced the start of production for its popular 54" soil compactor in North America. Previously produced in Japan and imported, the SV204 has begun rolling off the assembly line at SAKAI's Adairsville, Georgia manufacturing plant.

This change also signifies an important milestone for SAKAI America - now all SAKAI soil compactors sold in the North American market are locally built. This increased localization underscores SAKAI's ongoing commitment to the North American region and its customers. Furthermore, SAKAI America is actively striving to localize the sourcing of components and continuously evaluates supplier alternatives to integrate domestic content where feasible.

"This is an exciting development that will directly benefit our valued customers and dealers across the U.S. and Canada," said Brad Belvin, manager, Sales and



Marketing at SAKAI America. "Localizing the assembly of the SV204 in Adairsville will allow for enhanced responsiveness to market demands, streamlined logistics, and an even closer collaboration with our dealer network to provide the best possible support and inventory availability for soil compaction equipment."

This increase in domestically-produced soil compactors reinforces SAKAI Amer-

ica's dedication to providing high-quality compaction equipment and strengthening its operational efficiency within the North American market.

Source: SAKAI America





Contractors today are facing the challenge of finding gualified personnel to operate construction machinery, but they also have many opportunities, thanks to modern technologies such as Smart Compact or Smart Doc. Both of these digital solutions simplify complex work processes and increase the quality of compaction.

Smart Doc and Smart Compact do not require any in-depth prior knowledge or years of experience. Newcomers and career-changers can guickly become productive with these digital solutions. This makes the profession of construction machinery operator more attractive, especially for younger generations who want to work in a digital environment and also have the necessary prior experience from their private usage behavior. Construction

companies are therefore closing the gap in qualified workers and benefiting from digitalization at the same time.

With the Smart Doc app, Hamm is offering a modern solution for comprehensive



compaction control and documentation, as well as for transparent self-monitoring. Operators can see their own work cycle as well as that of the other machines. This means that everyone knows where the others have already traveled and where further compaction is required.

manding documentation of the compaction control and the temperature curve during

we have it



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More and more clients are now also de-

paving. The mixes used are becoming ever more complex, ever more difficult to pave. And it is all the more important that employees have the tools to know exactly when the road surface, the asphalt surface course, and the asphalt are compacted well and sufficiently to meet the quality requirements.

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Source: Wirtgen Group



# **The Power Behind Geothermal Drilling**



As global energy demands rise, geothermal energy stands out as a low-emission solution. Harnessing this resource at scale requires not only geological expertise but also cutting-edge technology - especially when it comes to efficient, high-performance drilling.

While geothermal energy itself is a clean, sustainable resource, the equipment powering these projects should be, too. In this article, we explore how Atlas Copco's innovations in mobile air compressors are transforminggeothermal drilling in Europe and beyond.

#### WHY GEOTHERMAL DRILLING REQUIRES SPECIALIZED TECHNOLOGY?

Geothermal drilling is a complex process that demands consistent high pressure to penetrate deep into the earth. The equipment must adapt to different geological layers, from hard rock to softer sedimentary soil. Efficient, high-volume air flow is crucial to avoid issues like cavitation (which can disrupt drilling) and to support continuous rotation. Finally, the equipment needs to be robust enough to withstand the heat, pressure, and corrosive elements often encountered in geothermal fields. Advancements in drilling technology

have made it possible to drill deeper, faster, and with less environmental impact, positioning geothermal as a central player in the future of clean energy. Key benefits include:

- Real-time monitoring and adjustments for consistent, optimized pressure and improved diagnostics;
- Innovations in portability and fuel efficiency that reduce costs and emissions;
- Durable designs built for challenging geological and climatic conditions. Geothermal energy is a clean, sustain-

able resource, but the equipment powering these projects should be, too. High-efficiency portable

compressors designed for geothermal drilling help reduce fuel consumption and lower greenhouse gas emis-

sions, making projects more environmentally friendly and economically viable.

Our customers in geothermal drilling have diverse needs, from deep wells for large geothermal installations to shallower wells near town centers and homes. The X-Air+ 750-25 portable air compressor was developed to address these specific requirements. Unlike our previous models, the X-Air+ 750-25 is compact yet powerful, making it ideal for ground engineering, water well drilling, geothermal drilling, and foundation drilling.

Atlas Copco has tailored its DrillAir series of portable compressors specifically for drilling applications, addressing unique challenges and maximizing productivity. The latest additions, the compact mobile air compressor X-Air+ 750-25 and the large

high-pressure air compressor X-Air+ 1200-40, exemplify Atlas Copco's commitment to innovation. These high-pressure portable compressors offer enhanced performance with the smallest footprint, making them ideal for geothermal projects that require mobility, efficiency and better productivity.

#### PRESSURE CONTROL FOR EFFICIENT DRILL-ING

Efficient geothermal drilling hinges on achieving the right air pressure and flow. Atlas Copco's newly improved AirXpert



performance management system keeps portable compressor performance optimized in real-time, adjusting air pressure and flow rates to meet each stage's specific needs.

This ensures optimal fuel consumption and efficiency for each specific application, resulting in quicker drilling with less energy, smoother operations with minimized downtime, and the ability to reach geothermal reservoirs faster

Drilling for geothermal resources requires traversing varied and often unpredictable geological layers. Atlas Copco's Dynamic Flow Boost and Extended Pressure Range (XPR) technologies adapt to these conditions by boosting air flow during specific operations like flushing and drill stem refilling. This reduces cycle times and prevents cavitation. Customizable pressure settings help prevent soil erosion and ensure smooth penetration through different geological formations.

Geothermal projects often require mobilization across vast or remote areas. Atlas Copco's portable DrillAir compressors, like the X-Air+ 750-25, offer simplified transportation with their compact designs, making transport and setup easier and saving time. This efficiency translates to lower project costs per drilled meter and improved productivity, enabling more meters drilled per hour with less logistical hassle.

Geothermal drilling requires specialized drilling rigs equipped with high-performance portable compressors and durable components capable of handling extreme heat and depth. Large air portable compressors, paired with customized drilling rigs, ensure smooth, efficient operation tailored to geothermal requirements. These rigs are designed to work in challenging environments, whether drilling for shallow geothermal systems or deeper geothermal energy production, providing the flexibility and reliability needed for successful project completion.

Real-world testing and field use have shown that Atlas Copco's DrillAir portable compressors perform consistently, even in extreme environments. From freezing conditions to volcanic landscapes, DrillAir units have proven their resilience. Beyond geothermal, these portable compressors excel in ground engineering and water well drilling, supporting a wide range of highstakes projects. Projects have reported drilling depths of up to 500 m/d, underscoring DrillAir's efficiency and dependability.

Portable and compact compressors like the X-Air+ 750-25 enable easier transport and setup, which reduces project downtime. These rigs and portable units are designed to work in challenging environments, providing the flexibility and reliability needed for effective geothermal drilling.

#### COMPARING FOUNDATION DRILLING VS. **GEOTHERMAL DRILLING**

While both foundation and geothermal drilling rely on similar drilling technology and high-powered equipment, their objectives and technical requirements differ significantly.

Foundation drilling focuses on creating stable, supportive ground structures



to support buildings, bridges, and other structures, requiring precision but often dealing with shallower depths.

In contrast, geothermal drilling is aimed at accessing heat energy stored deep within the Earth, typically at greater depths and with the need to handle higher temperatures and pressures.

sors are well-suited for both foundation and geothermal drilling, but the design differences cater specifically to your needs, ensuring efficiency and reliability tailored to each application.

Atlas Copco's DrillAir portable compressors have repeatedly proven their durability in demanding environments. With a track record in ground engineering, water well drilling, and geothermal applications, these units deliver dependable perfor-

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Atlas Copco's DrillAir portable compres-

mance in tough settings. Some recent projects have demonstrated the capability to reach drilling depths of up to 500 m/d, underscoring their resilience and reliability.

As geothermal energy adoption accelerates, investing in the right technology is critical to maximizing efficiency and sustainability. Advanced compressed air and drilling technology from Atlas Copco empower you to reach geothermal reservoirs faster, safer, and more costeffectively, helping drive the transition to a sustainable energy future.

Ready to optimize your drilling operations? Contact Atlas Copco's compressed air experts to discuss how our DrillAir range can enhance the efficiency of your ground engineering, water well drilling, geothermal and foundation drilling projects.

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# **Junttan Selects Volvo Penta as Engine Partner** in Next-Generation Equipment

Junttan, the Finnish foundation equipment specialist, has partnered with Volvo Penta to power its next-generation machines - starting with the new DR5 drilling rig - uniting shared values, technical strength, and a long-term vision for reliable, future-ready solutions.

The DR5 drilling rig marks the launch of a new chapter for Junttan, as the company introduces its new-generation product line powered by Volvo Penta engines. The DR5 is the first model to feature the high-performance Stage V/Tier 4f Volvo Penta TAD1385VE, a powerful engine with a compact design that delivers 405 kW (543 hp), aimed to meet the demands of specialist equipment with rigorous uptime and reliability requirements.

"For us, this is a strategic choice for the long term," said Tomi Voutilainen, director of product management and engineering at Junttan. "Volvo Penta's offering doesn't just meet our technical needs today — it



has the range, flexibility, and development paths to support where we're going tomorrow."

Junttan began its search for a new powertrain partner in 2020 to future-proof its equipment for modern job site demands. After evaluating the market, Volvo Penta was selected for its extended maintenance intervals, compact engine design, scalable power options, and robust global

service network - but just as importantly, for a cultural fit that emphasized agility, transparency, and shared values.

With equipment operating in remote locations around the world, Junttan relies on robust, easy-to-maintain engines supported by a strong global network - making Volvo Penta a natural fit. All new-generation products, including pile driving rigs, drilling rigs, and hydraulic



power packs, will be designed to maximize efficiency, extend service intervals, and reduce total cost of ownership.



Both companies share a deep-rooted commitment to sustainability and innovation. Junttan's DR5 drill rig continues that legacy with a 20-tonne weight reduction over its predecessor and compatibility with 100% renewable HVO fuel. Source: Volvo Penta

Maxam Tire recently announced the launch of the MS330 for wheel loaders, articulated dump trucks and motor graders. Engineered to excel across demanding applications, the MS330 features a range of enhancements designed to boost traction, improve heat resistance and extend overall tire life. From its robust casing design to its advanced tread compounds, the MS330 delivers superior performance where it matters. A redesigned, more aggressive traction pattern increases grip on challenging surfaces, helping

operators maintain control in diverse the most out of every tire.

"At Maxam Tire, the Customer and Innovation are at the core of everything we do. The MS330 embodies our spirit of continuous improvement and unwavering commitment to manufacturing the best products for our end users," said Jimmy McDonnell, vice president of Sales & Marketing. "We've designed the MS330 with cutting-edge features that not only elevate performance, but also enhance the user experience." Source: Maxam Tire

is never too early to prepare for the annual **Concrete & Demolition** special issue that will be published in the December/January issue. Send us your news releases, technical articles and your advertisements to be featured in the ONLY bilingual trade publication reaching your clients from coast to coast in Canada!

Deadline: November 30, 2025! Info : 416-795-1295

**Compact Equipment Issue** that will be published in November. Send us your ads or news releases to be featured in the November issue of Advertise your products and services in **Canada's Equipment Magazine!** 

We're getting ready for our Annual

InfraStructures Deadline is October 30, 2025! Info: 416-795-1295

# Maxam Tire Unveils the MS330



conditions. Deeper tread maximizes traction and extends tire life, ensuring end-users get



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InfraStructures English Edition May 2025 - page 27

and the

# **Bauer Spezialtiefbau Constructs Retaining Structure and Excavation Pit for New LVR Building in Cologne**

Where the LVR building on Ottoplatz once opened its doors to the employees of the Landschaftsverband Rheinland (LVR) and served as an administrative center for over 2 decades, a new administrative building for the LVR is now being built in the heart of Cologne's Deutz district, in Germany. With a height of 69.5 m and 18 stories, it will extend over an area of 7,357 m<sup>2</sup>. But before the new building can tower into the sky, it was necessary to first dig deep into the ground – and here is where BAUER Spezialtiefbau GmbH plays an important role. The company was contracted to construct an 8 m deep excavation pit - a task that requires not just technical expertise, but also the utmost precision and coordination between multiple disciplines. The specialist foundation engineering work is expected to be completed by early 2026. The final completion of the LVR building is planned for 2028.

"Constructing the excavation pit for the new LVR building requires a range of specialized foundation engineering methods," remarked Moritz Hahn, project manager at Bauer Spezialtiefbau. "For instance, a contiguous pile wall with wood and shotcrete paneling reinforces the excavation pit in the north, while a secant pile wall was installed in the west. The east and south enclosures utilize the existing walls of the former underground garage, which were underpinned with jet-grouted bodies for a deeper excavation base that is to be constructed later."

One highlight of the foundation project is the installation of the secant pile wall directly on the supported ceilings of the underground garage - truly a feat of engineering. The heavy drilling rigs operate on a ceiling structure secured by 1,000 heavy-load supports. This structure is supplemented by pipe bracing with lengths of up to 30 m which reinforce the west area of the excavation pit. In addition to the specialist

foundation engineering work, a large-scale dewatering system was installed. A 500 m long discharge pipe to the Rhine serves to





transport away the pumped groundwater – a particular logistical challenge. Since the start of construction, the Bauer

# Soilmec at bauma 2025

At bauma 2025, held in Munich from April 7-13, Soilmec presented an exhibit focusing on products and human relationships, which are at the core of its business. Soilmec's stand, a covered area of 375 m<sup>2</sup> was characterized by a large open space where relationships can be strengthened, Italian gastronomy can be enjoyed, and products and technologies can be discussed.

Soilmec showcased 3 main product lines: SC, SR, and SM. Innovation and technology were presented within the machines and in the "controls" area, characterized by the mobile training classroom, where it will be possible to try the SR machine simulator and the latest DMS developments.

The SC line, dedicated to "heavy-duty cranes", has seen significant developments in recent years. These advancements have materialized with the construction of the new Tiger line hydromill the SC-110 Urban, immediately employed in the Grand Paris Express project, and the development of the SC-130 HD, equipped with various technological setups that make it a multifunctional heavy-duty crane.

The Soilmec micropile machine line were represented at the fair by 3 models that fully express its distinctive features. These

multifunctional machines offer excellent performance in all major micropile, tie rod, and soil consolidation technologies,



thanks to their versatility and wide range of positions.

The SR line represents the flagship of Soilmec, with multifunctional hydraulic drilling rigs capable of performing all major large-diameter pile and deep Soil Mixing technologies. The range was represented at bauma by 2 of the most appreciated Blue Tech line models in recent years: the SR-95 and the SR-65. Additionally, the result of the latest studies developed by Soilmec's engineering department for internal combustion engine machines will be revealed: the new Blue Tech Plus technology, of which the new SR-45 is the progenitor.

In the Controls area, it was possible to discover and experience

Spezialtiefbau team has been working under challenging conditions.

"If several hundred very heavy machines are working on the supported ceilings of an underground garage, the utmost precision is necessary. No mistakes can be made," explained Mr. Hahn.

On the site of the new LVR building project, an impressive range of powerful equipment is being used: from the BAUER BG 24 H, which drills bored piles with diameters of up to 880 mm using the Kelly drilling method, or the KLEMM drilling rigs KR 806 and KR 401, which install ground anchors in confined spaces, all the way to the RG 16 T from RTG Rammtechnik GmbH, which is used for vibrating work.

#### FIVE DISCIPLINES WORKING SIMULTANE-OUSLY

It is not just the technology involved that is challenging: the conditions on site are also very demanding for the specialists. The work is carried out in extremely limited spaces with up to 5 specialist disciplines operating simultaneously. An existing wall is used as a retaining structure and secured with walings and anchors while a efficient dewatering system underground with a pump rate of up to 4,000 m³/h keeps the construction site dry.

On a construction project of this magnitude, every millimeter counts – and thanks to the latest digital tools, it is possible to control all processes efficiently. Starting from the planning phase, 3D modeling of the retaining structure designs played a decisive role: This made it possible to precisely analyze geometrical dependencies and determine the optimal placement of drilling rigs, anchors and waling structures. In this way, collisions that could have led to delays in the future were prevented in advance.

During construction work, additional

the latest innovations of the DMS Suite:

- DME, the Soilmec SR machine simulator, with numerous exercises on drilled pile technologies with Kelly bar and CFA, and a 3D viewer for loading and unloading operations from trucks with remote control.
- J-Eye Cameras with Artificial Intelligence for person detection, an advanced video surveillance system of the area around the machine for increased safety on site.
- Smart Maintenance, a new solution with sensors for monitoring the health status of components, and the presentation of an innovative Artificial Intelligence system for machine supervision.
- DMS-Suite: visitors were able to discover the numerous and proven drilling support automations of the DMS On Board, such as Autodrilling and automatic cycles in various technologies, the latest news on DMS Manager and DMS PC, such as the ability to manage user accounts independently, better organize the fleet by grouping machines and users, or advanced features for integrating machine data with the customer's management system.

Source: Soilmec S.p.A.



smart solutions ensure a smooth process. The digital construction diary documents the progress of work, while the application fielddata assists with the preparation of precise drilling logs. In addition, digital progress reports ensure continuous recording of all internal processes.

"Digital tools help us to control complex processes efficiently. From 3D modeling to the digital construction diary, they enable us to master all the challenges," concluded Moritz Hahn.

This transforms a complex construction site into a data-based precision project where nothing is left up to chance. Source: Bauer AG

# **Volvo Construction Equipment Unveils World-First Electric Articulated Haulers**

Volvo Construction Equipment (Volvo CE), inventor of the articulated hauler, recently introduced the new A30 Electric and A40 Electric - the world's first serial-produced battery-electric articulated haulers of their size class.

Announced at bauma 2025, the A30 Electric and A40 Electric are planned to be available to select customers in Europe from 2026.

Boasting the same unrivalled off-road performance as conventional models, the new machines are pairing zero emissions with world-class hauling for a range of segments including quarrying, mining and construction. With a payload of 29 t and 39 t respectively, these mighty machines are now among the largest in Volvo CE's electric portfolio.

The launch is the latest milestone in a series of hauler innovations. It not only comes 60 years after Volvo CE pioneered the world's first articulated hauler, but also arrives shortly after the company's recent unveiling of a new generation of conventional articulated haulers. As part of the company's largest product portfolio renewal in decades, within which 35% of the company's total portfolio has been updated, this new generation makeover enjoys improved productivity, safety and fuel efficiency.

Together, both the new electric and conventional ranges offer customers a pioneering and productive solution for



"Our commitment to innovation

major step forward in our ambition to decarbonize construction, combining the same unbeatable performance our customers know and love, with a more sustainable operation. As the world's first battery

continues. These electric haulers mark a

a runtime of up to seven hours depending on driving conditions. Ideal applications



powered articulated haulers of their size class, we are proud to continue to evolve

frequent recharging. They can even enjoy

our portfolio by bringing our world class electric technology into a brand new segment," said Mats Sköldberg, head of

Technology for Volvo

CE. Thanks to their powerful lithium-ion batteries, the A30 Electric hauler and A40 Electric hauler are designed to offer a runtime of 4-4.5 hours across most applications, though high-energy jobs may require more include downhill load carrying and uphill empty runs, tunnel work and quarries and underground operations, where emission reduction is critical.

What is more, when powered by renewable energy these 2 machines offer a CO2 saving of 84% (for the A30 Electric) and 90% (for the A40 Electric) across their entire lifecycle, when compared to their diesel equivalents.

These electric models not only mark a significant step forward in sustainable innovation but also benefit from the new generation upgrade with pioneering advancements in safety, uptime and efficiency. Built on the new generation platform, they feature the same innovative, modern design and enhanced fleet management capabilities.

Source: Volvo Construction Equipment

Clariant recently announced the successful startup of its MegaMax 900 methanol synthesis catalyst at European Energy's e-methanol plant.

Located in Kasso, Denmark, the facility is one of the world's first and, up to now, largest commercial e-methanol plant, using biogenic CO2 and green hydrogen to produce up to 42,000 t/y of green methanol. Clariant's Applied Catalyst Technology (ACT) technical service team provided on-site support throughout the startup procedure, overseeing the catalyst loading, reduction, and startup. MegaMax 900 is operating with excellent activity and stability despite the challenging conditions of CO2-to-methanol conversion.

European Energy was founded in 2004 with the goal of driving the green transition and developing sustainable, fossil-free energy solutions. The multinational company has major investments in solar and wind energy projects, as well as Power-to-X and carbon capture technologies.



Clariant's MegaMax 900 is an ideal solution for European Energy's Powerto-Methanol project, as it provides the enhanced stability required for green methanol production. The catalyst also offers outstanding activity - even at very low reactor temperatures and pressures. Moreover, MegaMax is very well suited for CO<sub>2</sub> to methanol process conditions delivering high conversion rates and long

We are working on our special issue on Public Works in advance of the APOM and AORS Trade Shows which will be published in the May issue. Send us your advertisements or news releases to be featured in Canada's Equipment Magazine!



InfraStructures English Edition May 2025 - page 30

wherever they are on their transformation

journeys.

catalyst lifetime. The catalyst's superior selectivity also widely prevents the formation of byproducts in the yield, which greatly improves the sustainability and economics of green methanol synthesis. Source: Clariant

poking for a supplier's webs

Star To

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### ntraStructures Deadline: March 20, 2025! Call: 416-795-1295

# **Flydeck: True Innovation for Suspended Scaffolding Applications**

The Flydeck surface must be anchored

to the back side of the deck (such as roads,

element.

The Flydeck is a certified system to simplify, speed up and make the assembly of suspended scaffolding and structures

safer. It is a perfectly horizontal surface or such to wrap around the architectural shape of the structure to work comfortably on any construction site where suspended scaffolding is



needed. In addition, using the FlyRail rail to set up the Flydeck surface allows the work to become easy and fully safe. With this solution, it is possible to create wraparounds for columns, piles, dosserets and any other

highways or railways) without blocking traffic. There are no width, length, or capacity limitations since it is modular and can be combined with beams and scaffolding steel planks of any brand, model,

ed by patented pins and spring pins. The girders are installed using the FlyRail rail that guarantees, in addition to high safety, a significant reduction in assembly and disassembly time for each stage by about

The system consists of 25-cm or 45-cm

aluminum, or steel lattice girders connect-

shape, and size.

# Achieving Circularity: Burckhardt Compression's **Revamp of Sherritt International's 60-Year-Old Compressor**

Burckhardt Compression Canada has successfully overhauled a 60-year-old compressor for Sherritt International Corporation, a leader in nickel and cobalt mining and refining. The aging compressor, suffering from severe wear and moisture damage, was no longer supported by its original manufacturer - posing a major operational risk.

Faced with an urgent need for a solution, Sherritt sought Burckhardt Compression's expertise in compressor technology. Through meticulous assessment and reverse engineering, BCCA completely rebuilt the compressor to precise specifications. This comprehensive overhaul included custom-engineered spare parts, such as specialized cylinder liners, robust/ proprietary Persisto<sup>®</sup> materials, and updated piston ring designs. Each component was carefully designed to enhance durability, efficiency, and overall performance.

These tailored improvements resolved chronic reliability issues, increasing/boosting the compressor's availability from 62%



to an impressive 88%. It now operates reliably, running 3 times longer than before and significantly reducing unplanned downtime. This achievement aligns with both companies' sustainability goals by minimizing resource consumption and waste.

"The machine is now in operation, and this would not have been possible without

your shop's support. Working together, we were able to develop specifications for all the parts that needed to be refurbished. Your team met our deadline and there were no issues with any of the work completed. Your experts did an excellent job of keeping track of the project and providing weekly updates. The outstanding presentation was what sold us on Burckhardt's

1/3 compared to traditional systems and about 1/2 compared to multi-directional scaffolding systems.

The Flydeck system is truly innovative: the FlyRail rail supports the cantilevered girders of the Flydeck surface while the operator arranges the surface and anchors it in full safety.

The real advantage is the FlyRail rail, which resolves all those assembly issues that call for the rental of alternative systems that - in addition to being expensive - require stopping roadway or railroad

traffic. The Flydeck system can be assembled by accessing it from an abutment or a column without using the by-bridge or negative surface platforms. This solution greatly reduces the assembly and disassembly time of suspended structures by halving their cost and greatly reduces costs in case of rental, halving the storage overall dimensions and costs for handling and transportation.



In addition, 25-cm aluminum or steel girders offer more maneuverability than the 45-cm ones. Joining the beams is very fast and safe thanks to the patented spring pins that simplify assembly and disassembly and ensure perfect co-planarity of the work surface.

This system, in addition to significantly increasing operator safety, offers significant time savings during set-up and

expertise and gualification to complete this work. No matter what the problem is, they can always come up with a solution. The cleanliness and organization of the shop is the best I have seen," said John Young, Mechanical Engineer, Sherritt International Corporation.

This project is part of Burckhardt Compression's broader commitment to industrial circularity. As part of its Mid-Range Plan, the company aims to complete similar revamps by 2027, extending the lifespan of critical infrastructure worldwide. Source: Burckhardt Compression AG



dismantling, as well as the reduction in purchase, rental, transportation and storage costs, and allows the company not to interfere in any way with normal roadway traffic operation. With the FlyRail system, the suspended surface can be easily assembled in several stages whenever the structure being served calls for it. Source: Pilosio Srl





Info: 416-795-1295

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# **CDE Launches Symposium to (Re)Define Waste Recycling**

Populations are growing and resources are depleting. We are building bigger and we are building faster than ever before in history, edging ever closer to the precipice. Yet a brighter future is possible. It is essential to balance the need to develop vital infrastructure to support urbanisation and essential products and services without costing the earth. This is the overriding message from CDE as the wet processing experts reveal plans to assemble a collective of industry front-runners to help redefine waste.

#### CIRCLE 2025 TO TAKE PLACE THIS OCTOBER IN BRUSSELS

This October in Brussels, the beating heart of policymaking in the EU, CDE will host CIRCLE 2025, a waste recycling symposium where like-minded and forwardthinking leaders from across the industry including materials processors, technology experts, legislators, and more - will gather to share insights, analyse trends, and discuss opportunities to rethink

the industry's waste burden. The event comes as an evolution of CDE's Circular Driven Economy Symposium which was last hosted in London precovid and attended by delegates from around the world, including research bodies, academic institutions, representatives from the European Commission and multinational construction

and manufacturing firms. "Natural resources are rapidly depleting. This is widely known and accepted," explained CDE's head of business development for Europe, Eunan Kelly. "A conscious effort is absolutely needed to manage these resources wisely. CDE is leading the charge in this field, particularly in Europe where the legislative landscape is swiftly evolving, but rising to an

industry-wide challenge requires a collective effort to close the gap."

While also reducing carbon emissions, CDE wet processing plants have helped recover and channel back into the construction industry over 230 million t of



material over the last decade, equivalent to building the Great Wall of China twice. CDE's sustainable solutions really are closing the gap in circularity and can be found in operations around the world and are used for a range of applications, such as construction & demolition waste, excavation waste, contaminated soils, road sweepings, hydro excavation waste, and trommel fines, playing an essential role in





the road to net zero.

"Our solutions are already an essential part of the waste recycling ecosystem throughout Europe, which is driving the industry forward, but there's still work to be done, knowledge to be shared, and

benefits to be had for both the public and private sectors globally. The symposium will provide a collaborative space to coauthor a sustainable way forward for waste management and accelerate the pace of change in Europe and further afield," he said. "Pursuing a more circular economy is not necessarily about replacing every grain of raw material."

"Recycled and recovered materials won't ever offset all of the demand, but, where we can, we should be supplementing raw materials with recycled products that can achieve the same end results. For years, overburden, scalpings, and crushed rock fines - by-products of the quarrying process often miscategorised as waste - have been stockpiled, meanwhile construction, demolition and excavation wastes have been landfilled. There's millions of tonnes of it readily available," added Mr. Kelly. "The time to process that material, he says, is now. The market needs solutions that can drive down operational costs while creating new and sustainable revenue streams."

Right now, many countries across Europe rely on imports of critical raw materials. The extraction and processing of these materials can be costly, both in economic and environmental terms. Factor into this broader climate commitments and we have a real confluence of challenges.

Circle 2025 will bring together the best minds to help unravel the complexities of these competing priorities to rewrite the narrative around waste and shape the future of mineral waste recycling. Source: CDE

BEFORE

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CastoChrome Blow Bar

Ceramic / Tungsten Carbide embeded in CWI

ALCONTRATES.



# Blow Bars & Impact Anvil | CastoChrome®

# **The Challenge**

A company recycling asphalt and concrete faced operational inefficiencies with their Terex I 120 impact crusher. Equipped with competitor's ceramic blow bars and standard anvils. production rates were low: 3.461 metric tonnes/hour for recycling concrete and 7.250 metric tonnes/hour for asphalt. Additionally, the standard anvils required replacement 3 times per season, resulting in frequent downtime and increased costs. The company was looking for a more durable solution to improve efficiency and reduce maintenance.

# The Solution

Castolin Eutectic introduced CastoChrome Next-Generation Ceram blow bars and CastoChrome impact anvil, engineered for high durability and wear resistance. The patented technology provided superior performance with CastoChrome BHN 550+ and Ceram XP material. These solutions seamlessly replaced the competitor's components, delivering reliability and improved productivity.

# The Outcome

The results were outstanding and production increased dramatically: • Recycling Concrete: from 3.461 to 9.689 metric tonnes/hour (+180%) • Recycling Asphalt: from 7.25 to 24.44 metric tonnes/hour (+237%)

Durability also improved. The Castochrome impact anvil lasted the entire season without significant wear, compared to 3 replacements of the previous anvil





# **Two Kleemann Plants Receive the German Design Award**

DESIGN AND RANGE OF FUNCTIONS IMPRESS WITH THE IMPACT CRUSHER MO-BIREX MR 100(I) NEO/NEOE AND SCREEN-ING PLANT MOBISCREEN MSS 502(I) EVO

Kleemann was also honored this year with the German Design Award for its technically innovative approaches. Two new products from the materials processing specialist received the coveted design award in the "Excellent Product Design" category.

#### MOBIREX MR 100(I) NEO/NEOE: LOCAL EMISSION-FREE WORK IN THE COMPACT CLASS

With the mobile impact crusher MO-BIREX MR 100(i) NEO/NEOe, the jury honored the high flexibility, which the machine owes to its compact dimensions and its low transport weight. Furthermore, with innovative extras, the impact crusher sets new standards in the compact class: Highlights, for example, include the automatic crushing gap adjustment and the tool-free "Lock & Turn Quick Access" system. This allows the crusher to be opened in only 30 s without the need for tools. This guarantees efficiency and safety. User-friendliness is also the focus of the SPECTIVE operating concept, which is clearly structured and intuitively designed. The environmentally friendly drive options are future-oriented: The all-electric E-DRIVE drive concept enables locally emission-free work; alternatively, the fuel-saving diesel-



direct drive concept D-DRIVE is available.

#### MOBISCREEN MSS 502(I) EVO WITH PAR-TICULARLY ERGONOMIC OPERATION

The MOBISCREEN MSS 502(i) EVO convinced the jury with its high flexibility and ease of use. Thanks to its compact design and transport-friendly dimensions, the scalping screen is ideal for changing locations. Thanks to the selection of different screen media, it can be individually adapted to specific requirements. Operation of the plant and, in particular, changing of the screen media are ergonomically designed with the user in mind. Sustainability was also a top priority with the MSS 502(i) EVO. The electrohydraulic dualpower drive operates locally emission-free.

#### DESIGN AWARD: AWARDED FOR INNOVA-TION AND FUNCTION

The German Design Award, presented by the German Design Council, is one of the most prestigious design awards in the world and is highly regarded far beyond specialist circles. Every year, outstanding products that combine pioneering innovations with excellent design are honored. Both Kleemann plants combine a functional and user-friendly design with a clear focus on safety and sustainability. Source: Wirtgen Group

# Metso Launches 3 Next-Generation Nordberg HPe Series Cone Crushers for Mining and Aggregates Applications

Metso recently introduced 3 next-generation cone crushers, HP600e, HP800e and HP900e, to its Nordberg® HPe series™. The units maintain the trusted HPe features while extending the series to larger crushing capacities for both aggregates production and high-demand mining applications.

"The evolution of Metso's cone crusher technology brings multiple benefits and presents a true step change in terms of performance, uptime, serviceability and application coverage. We are excited to expand the Nordberg® HPe series and

bring to market a wider offering of these high-performance crushers fit for different production purposes," said Ilkka Somero, product manager of HP Cones at Metso's Aggregates business area.

# InfraStructures

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"Efficiency is the key to meeting the industry's needs. With the robust new HPe units, we can offer performance, longer lifetime and higher cost efficiency to our customers", said Nicolas Gallay, director of Gyratory and Large Cone Crushers at Metso.

HP600e and HP900e are an evolution to the existing range, built and based on class-leading proven technology. HP800e is a new addition to the series with a crushing size option of 600 kw/800 hp. All 3 units come with 2 modern automation platform options: IC70C and MCP. Metso's modern automation systems provide better visibility, monitoring and control of the crushing process, and enable connection to remote monitoring and further digital services.

# HIGHER LEVEL IN PERFORMANCE, UPTIME AND APPLICATION COVERAGE

Nordberg<sup>®</sup> HP600e, HP800e and HP900e units offer:

high performance with up to 15% more capacity\* and 35% greater crushing force\*, thanks to enhanced kinematics and higher power installation;
new optimized crushing chambers, head spinning reduction, and ring bouncing detection to reach optimum capacity and maximum wear life;

 complete drive and sub-frame for safe and faster installation while reducing dynamic load by up to 70%;
 a new feed cone lifting tool, allowing for

 a new feed cone lifting tool, allowing for safer maintenance when changing wear

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parts.

\* compared to equivalent cone crushers in the same class.

#### ENHANCED PERFORMANCE THROUGH EQUIPMENT UPGRADES, PARTS AND SERVICES

Upgradability is a core philosophy of the HPe Series. Previous-generation crushers can be enhanced with the latest e-features or upgraded with modernized components.

Metso offers a range of upgrades for existing Nordberg<sup>®</sup> HP Series<sup>™</sup> cone crushers, allowing operators to boost performance and efficiency by integrating the newest HPe features or other advanced options. Due to innovative product development and interchangeability of parts, upgrading is seamless and cost-effective.

Additionally, Metso provides installation and commissioning, inspections, refurbishment and shutdown support, Life Cycle Services agreements as well as a comprehensive wears and spares offering. All upgrades and services are planned and executed to the highest standards. Metso's distribution network offers an additional layer of support and services by providing localized expertise, rapid response times and tailored service solutions.

With over 13,000 units sold, the Nordberg<sup>®</sup> HP / HPe Series<sup>™</sup> cone crushers are a trusted choice in the mining and aggregates industries.

Source: Metso Corporation

# **Vemaventuri Expands to the North American Market**

Vemaventuri, a subsidiary of PERI and a trailblazer in concrete sensor technology, recently announced its official entry into the U.S. market. The announcement was made at the World of Concrete Trade Show in Las Vegas, last January. Vemaventuri introduced its concrete monitoring technology as part of the innovative products of PERI USA. The PERI Group is one of the world's largest manufacturers of formwork and scaffolding systems. Vemaventuri's partnership with PERI USA strengthens the company's ability to provide its innovative solutions to U.S. customers and offers expertise and support in the field of formwork and sensor technology.

"We are thrilled to bring Vemaventuri's sensor technology to the U.S. construction industry," said Strydom Groenewald, CEO of PERI USA. "The successful first use of the products in the U.S. demonstrates their potential to change the way we approach concrete monitoring and construction efficiency. Vemaventuri's combined sensor solutions provides a unique opportunity to approach critical construction challenges for our U.S. customers with smarter, datadriven solutions."

Vemaventuri's PREMO Concrete Pressure Monitoring product has already demonstrated its capabilities in the U.S. market. The technology was deployed by Foundations Hawaii Inc. on the Hawaii's Airport Modernization Program, where it delivered real-time monitoring of concrete pressure during complex pours. This facilitated precise adjustments that helped manage structural integrity, reduce risk, optimization of formwork utilization and reduce costs. "The system is really useful for us, as far as monitoring the concrete, we have a lot of pressure that's critical for us in delivery. It's really simple, easy-to use," said Max Matola, Project Engineer. This successful deployment underscores the product's value in real-world scenarios, paving the way for broader adoption across the U.S. construction industry.

Vemaventuri's portfolio of innovative technology includes a suite of sensors solutions, PREMO, TEMO, and PHONO, all operating on a unified platform with. These products are designed to improve efficiency, safety, and quality on construction sites, minimizing risk and enabling teams to better manage industry challenges like labor shortages, budget constraints, and project delays.

The PREMO system provides real-time concrete pressure monitoring, enabling better formwork utilization and enhanced safety during pours. TEMO offers temperature and maturity monitoring, optimizing

# RASCOtec Injection Systems: Your Reliable Choice for Structural Waterproofing

The RASCOtec injection system represents proven waterproofing solutions for concrete construction. With years of experience and advanced technology, RASCOR provides reliable waterproofing methods that withstand even the most demanding influences.

The RASCOtec waterproofing system guarantees reliable and long-lasting waterproofing through its 2-phase principle. Initially, waterproofing profiles such as the RASCOtec expansion joint, the RASCOtec injection channel, or the RASCOtec collar are installed to ensure the uniform distribution of the injection material. Once the concrete has cured, the waterproofing is achieved by precisely injecting the material into the waterproofing profile, protecting the structure permanently from water. This process minimizes risks and significantly enhances the overall quality of the construction.

The injected RASCOtec injection channel provides a reliable waterproofing of construction joints and adjacent cracks. Due to its secure injectability, ensured by full surface contact with the concrete, the injection channel remains firmly in place,



offering an effective waterproof barrier.

The RASCOtec controlled crack element enables controlled crack and joint formation. These targeted weakening elements allow for larger concrete pours and reduce the need for reinforcement. In conjunction with the injection process, it ensures that the intentionally created cracks are waterproofed securely and permanently.

The RASCOtec collar system, combined with RASCOflex injection products, guarantees safe waterproofing of penetrations, even for complex multiple penetrations. The collars enclose all round or elliptical openings, such as pipes or shafts, preventing water ingress permanently.

The injected RASCOtec expansion joint element ensures flexible and secure waterproofing of movement joints, which are often a significant challenge.

The system is further enhanced by RASCOflex injection products, such as acrylate gels, which are injected precisely to provide reliable and long-lasting waterproofing.

Whether it's construction joints, move-



concrete curing and allowing for faster project timelines. PHONO delivers precise compaction and fill-level monitoring, ensuring high-quality results with reduced risk and cost.

"Our mission is to improve the construction industry by equipping decision-makers with real-time, accurate data – putting them in a position to take better decisions," said Michel Seeger, CEO of Vemaventuri. "Whether it's addressing labor shortages, ensuring budget compliance or reducing timeline delays, our smart sensors and integrated data systems empower teams to

## **Aquajet Expands Hydrodemolition Reach and Flexibility**

ment joints, or penetrations, the RASCOtec waterproofing system offers customized solutions for every waterproofing task. When combined with RASCOflex injection products, it ensures a reliable and durable waterproofing. Its versatility makes it ideal for both high-rise and civil engineering projects.

Why Choose RASCOR?

With 60 years of experience and a versatile product portfolio, RASCOR is the perfect partner for construction projects of all sizes. Continuous development ensures the highest quality, reliability, and sustainability – complemented by personalized advice and tailored solutions for every need. Source: RASCOR International Ltd.



Aquajet recently introduced the Aqua Rail System 3.0 designed to enhance the capabilities and flexibility of hydrodemolition robots in challenging environments. The system centers around the upgraded Aqua Spine 3.0, an extendable rail system that attaches eas-

ily to any surface, providing a stable platform for the Power Head to move along during operation. The Ergo Climbers have also been upgraded to version 3.0, with new features that ensure seamless compatibility with the new system. To better support the Aqua Spine and Ergo Climbers, Aquajet created a customizable support system, providing more flexibility and adjustable setups for different projects. This whole system is ideal for a variety of hydrodemolition work and is compatible with the Aqua Cutter 750V, as well as the new Aqua Cutter 450A and 450V hydrodemolition robots, and Ergo system.

Recognizing that not all projects involve straightforward flatwork, this solution equips contractors with a highly adaptable, ready-to-use setup capable of tackling complex applications, such as tunnel, bridge, silo and dam wall repairs and refractory work. Source: Aquajet Systems AB

work smarter and more efficiently, whether they are pouring concrete or monitoring compaction."

As the construction industry faces increasing pressures, Vemaventuri's technology is uniquely positioned to support U.S. construction firms in addressing these challenges head-on. The company's sensors offer solutions that minimize manual oversight, optimize workflows, and reduce project costs, while improving safety and overall project quality. The timing of Vemaventuri's U.S. launch could not be more relevant, as the industry seeks to do more with less in an environment of rising demands and constrained resources. Source: PERI



## **The Smart Solution for Corrosion Protection** at Airport Tank Farms

Airports go through hundreds of thousands of gallons of jet fuel each day, requiring tank farms to store plenty of reserve fuel onsite. These aboveground storage tanks (ASTs) are under strict regulations to ensure physical and environmental safety, including the protection of tank floors from corrosion. While cathodic protection (CP) has long been a go-to for corrosion inhibition, the last two decades of tank protection have seen CorroLogic® Vapor phase Corrosion Inhibitors become a new industry standard that offers a smart solution for protecting storage tanks at airports and beyond.

Why Protect Airport ASTs from Corrosion?

Corrosion protection of storage tank bottoms has many incentives. Corrosion eats away at the metal floor, ultimately leading to hazardous leaks if left unchecked and unrepaired.

TAXABLE INCOME.

Any measures that prevent corrosion and reduce repairs can therefore save time,

floors are uneven and can bend and create

distributed by vapor action. Once the corrosion inhibitors are present under the tank floor, they begin to diffuse throughout the void space, forming a protective molecular layer on all metal surfaces they reach. This allows CorroLogic® to protect the bottom of the tank independently or in conjunction with CP. Research suggests these two methods may have a synergistic effect when used together. Further to the user's advantage, CorroLogic® does not require a power source and can be applied at any stage in a tank's lifecycle-during construction or even after the tank is filled and in service, minimizing the loss of time and money required to drain high volumes of fuel. With positive results seen from the last 20 years of CorroLogic® field trials, the underlying Vapor Corrosion Inhibitor (VCI) technology has recently been codified in

Dale marco.

industry standards: **API** Technical SP21474-2023.

the aviation sector needs solutions to corrosion that make roLogic<sup>®</sup> measures up relatively non-inva-

deficiencies of other protective strategies and continues working even when CP power is off. Source: Cortec® Corporation

# **Machine Shipping by Barge**

Sennebogen has successfully loaded 8 large machines onto a barge to transport them by water from Straubing, Germany, via Antwerp, Belgium, to Charleston, South Carolina. The machine transport was carried out in close cooperation with the heavy haul company Karl-Groß from Regensburg, which has extensive experience in the field of heavy load transportation. The use of barges brings considerable advantages in terms of sustainability and costs.

Loading the machines, including the Sennebogen 855 and 870 models in crawler and mobile versions, presented a logistical challenge. With operating weights of between 70 and 105 t, loading them onto the barge was a complex undertaking that required special measures.

"As the machines could not be lifted completely, we had to dismantle the counterweights on site and reassemble them after loading. It was also necessary to temporarily close the road between the Sennebogen plant and the port," explained Roland Hermann, head of **Customs and Foreign Trade** Machine Shipping at Sennebogen.

The heavy load required the use of a tandem hoist with 2 cranes, which were precisely controlled by experienced crane operators. This technique enables the weight to be distributed evenly and minimizes the load on the cranes.

"The challenge was to lift the machines into the barge without any interruptions or jolts. The first machine was loaded at 7 a.m. and 7 machines were safely stowed by midday," said Mr. Hermann.

#### SHIPPING BY BARGE OFFERS CONSIDER-ABLE ENVIRONMENTAL BENEFITS

The use of inland waterway vessels for transportation offers considerable environmental benefits. While CO2 emissions for road transport are around 113 g/tkm, they are only 34 g/tkm for transport by inland waterway vessel. This reduces CO2 emis-

sions for the approximately 800-km route by 75%, which corresponds to a saving of around 49 t of CO<sub>2</sub>.

"This is an important step towards increasing the sustainability of our machine shipments. We plan to carry out inland





waterway loading regularly in future and are currently working on implementing a comprehensive sustainability report at Sennebogen," continued Roland Hermann A smooth loading process was only possible thanks to the close cooperation with the port of Straubing, which was heavily involved in the planning and implementation of the barrier measures. The city of Straubing also supported the necessary

transport permits.



money, and hassle in the long run. CP is often used to inhibit corrosion by sending an electrical current through the tank pad that offsets the normal electrochemical reaction

some areas of the tank floor will not be in constant contact with the treated sand pad, allowing for patches of corrosion. CorroLogic<sup>®</sup>, on the other hand, is

InfraStructures English Edition May 2025 - page 40



air pockets as the tank is filled and refilled,

of a corrosion cell. If the tank floor stays in

contact with the electrical current, corro-

sion is mitigated. However, because tank

Report 655 and AMPP As with any industry that involves ASTs,

sense practically and economically. Corto that standard as a sive technology with vapor-phase action that complements the



The machines travelled from Straubing via Antwerp, where some of the machines were loaded directly onto an ocean-going vessel, while the others were transported on to Zeebrugge. The final destination, the port of Charleston, South Carolina, is an important transshipment point for the American company Sennebogen LLC due to its good infrastructure and service quality. The transportation from Belgium to Charleston generally takes around 2 to 3 weeks.

#### HEAVY-DUTY SHIPPING VIA INLAND WATER-WAY VESSEL AT SENNEBOGEN

The successful loading of the 8 machines demonstrates the potential of barge loading as a cost-effective and environmentally friendly alternative to conventional transportation routes.

"We used to concentrate on North Sea ports such as Hamburg and Bremerhaven, but the high reloading costs in Duisburg made this increasingly unattractive. Transporting machines by barge enables us to reduce logistics costs and act more sustainably at the same time," explained Mr. Hermann.

In the summer, further transports were carried out by barge. These included the loading of a Sennebogen 895 E material handler to Israel and a 9300 E harbor crane to Turkey. The heaviest component to be loaded weighed an impressive 107 t.

The cooperation with the heavy load terminal and the flexible planning of transport routes will continue to play a central role in Sennebogen machine shipments in the future.

Source: Sennebogen Maschinenfabrik GmbH

# Port Houston Orders 16 New Hybrid Konecranes RTGs and Retrofits 8 Existing Units

Port Houston is adding to its large Konecranes RTG fleet with an order for 16 hybrid Konecranes RTGs. The deal was booked in Q1 2025 and delivery is scheduled for H1 2026. In addition, Konecranes Port Services will retrofit 8 existing Konecranes RTGs currently operating at the port. The retrofits will be completed by Q4 2025.

Located on the U.S. Gulf Coast, Port Houston is a key hub for international trade and industry. It handles more container traffic than any other port on the Gulf and ranks among the busiest ports in the U.S.

Port Houston has long counted on Konecranes RTGs to handle its high-volume traffic. With these new orders, the port will be operating a fleet of 163 Konecranes RTGs - including 73 hybrid models.



"The trust we've built with Konecranes played an important role in our decision to make these investments. We work in partnership with the skilled labor who work at our container terminals to determine the best equipment for the operations at Port



The new hybrid Konecranes RTGs, designed for 1-over-6 stacking capacity, will be equipped with advanced Smart Features such as Auto-steering, Stack Collision Prevention and Truck Lift Prevention. Their hybrid power units enable the port to reduce emissions and save on fuel costs.

The retrofits will add the same Smart Features, as well as Gantry Collision Prevention, Auto-Steering and new E-Chains. Carried out by Konecranes Port Services, they will extend the lifetime of an important part of the port authority's existing Konecranes RTG fleet and align them with the latest technology and safety standards.

Houston and Konecranes RTGs keep our operations running safely and smoothly. We value the consistent support we receive from Konecranes Port Services and are confident the team is always on hand to help us when needed," said Nathan Fabian, Director, Port Cranes at Port Houston.

By investing in Konecranes' proven hybrid power technology and modernizing part of its existing container handling equipment, Port Houston is preparing for long-term growth. The high performance of Konecranes RTGs and the technical expertise provided by Konecranes Port Services enable the port to efficiently scale

operations as demand increases.

"We're very happy to continue supporting Port Houston with these new RTG deliveries and advanced retrofits. The orders reflect the industry-leading strengths of our hybrid RTG technology and the incredible skills of our Port Services team," says Jussi Sarpio, Director Regional Sales Americas, Konecranes, Port Solutions.

This contract is part of Ecolifting, Konecranes' vision to increase its handprint meaning the beneficial environmental impact that can be achieved with our product and service portfolio - while reducing customers' carbon footprints. From ecooptimizing diesel drives, to hybridization and fully-electrified fleets, we will continue to do more with less.

A strong focus on customers and commitment to business growth and continuous improvement make Konecranes a material handling industry leader. This is underpinned by investments in digitalization and technology, plus our work to make material flows more efficient with solutions that decarbonize the economy and advance circularity and safety.

Source: Konecranes Ovj



# **Emissions at British Columbia Terminals**

Longstanding customer GCT Global Container Terminals has ordered 10 hybrid Konecranes rubber-tired gantry (RTG) cranes for its GCT Deltaport terminal and one battery-powered Konecranes RTG for its GCT Vanterm terminal. The agreements were signed in Q1 2025, and the 11 cranes will be delivered by Q3 2026.

The new orders expand GCT's fleet of Konecranes RTGs to 43 units. The terminal operator's earlier RTGs are equipped with Konecranes' Diesel Fuel Saver system, bringing significant fuel consumption reductions. Now GCT is taking another step towards its emission reduction goals, adding 10 hybrid Konecranes RTGs and placing Konecranes' first order for a fully battery-powered RTG.

The 10 hybrid Konecranes RTGs for GCT Deltaport will further improve fuel efficiency at what is one of Canada's busiest and largest container terminals. The battery-powered RTG for GCT Vanterm will

Nokian HTS G2 L4S Nokian HTS G2 E-4



come with a dedicated charging container and automated charging interface, smoothly integrating with on-site electricity infrastructure. The GCT Vanterm order is GCT's pilot project for zero-emission RTG operations, providing critical insights that will help GCT make informed decisions on its net zero pathway.

cranes' vision to increase its handprint



ity for reach stackers, fork lifts and log stackers. Steady handling and cornering translate to safety and efficiency in your everyday work, while the excellent puncture resistance and deep grooves ensure long, trouble-free life.

- meaning the beneficial environmental impact that can be achieved with our product and service portfolio - while reducing customers' carbon footprints. From ecooptimizing diesel drives, to hybridization and fully-electrified fleets, we will continue to do more with less.

This contract is part of Ecolifting, Kone-

Source: Konecranes Ovi

## **Appointments**

Effective April 14th, 2025, Anna Christine Sgro has been appointed president of Yanmar Compact Equipment's North American region. In her new role, she will focus on enhancing organizational integration, improving financial performance and driving customer success through innovative product and service development. Together with her team, she aims to establish Yanmar CE as a leader in the



compact equipment industry in North America.

Ms. Sgro brings with her a wealth of relevant construction and industrial experience, spanning general and product management, aftermarket support, digital transformation and strategy. In her most recent role, she served as president of Reesink Canada Holdings, where she led strategic growth initiatives in the agriculture, construction and complementary equipment sectors. Her earlier career included senior executive roles at prominent global organizations such as Volvo Financial Services, Volvo Construction Equipment, Strongco Equipment and Ritchie Bros, as well as leading the Global Caterpillar Alliance.

Anna Christine Sgro joins Yanmar CE's global leadership team, reporting to José Cuadrado, the company's Global CEO. Ms. Sgro holds a degree in economics with a minor in political science from York University, Toronto, Ontario, and post-graduate studies at Northwestern University, Kellogg School of Management, in the U.S.

Source: Yanmar Compact Equipment North America

McCloskey International recently announced the appointment of, Connie Burns-Wolfe as its new marketing manager. She brings a wealth of experience to the role, having previously worked as marketing manager in both the Agricultural Manufacturing Industry and the Fuel Distribution Industry.

As marketing manager, Ms. Burns-Wolfe will be responsible for developing and executing comprehensive

marketing campaigns, managing social media efforts, collaborating with the sales team, and ensuring consistent brand messaging across all channels.

McCloskey's appointment of Connie Burns-Wolfe underscores its commitment to building a strong, future-focused marketing team across various locations around the world that will further position the company as a leader in the crushing and screening industry.

Celebrating 40 years in 2025, McCloskey International has established a worldwide reputation for high-performance products that have introduced many of today's key mobile screening and crushing innovations. The company's headquarters in Co.

try. Burnsevelopive ng social media efforts, coll suring consistent brand me Connie Burns-Wolfe under Tyrone, Northern Ireland houses the world's premier crusher and screener engineering office, while its office and manufacturing facility in Ontario, is an advanced and highly capable 38,000 m<sup>2</sup> production plant.

Source: McCloskey International

**Palazzani Industrie S.p.A.**, an Italian manufacturer of aerial platforms, recently announced the appointment of **Claudio Teoldi** as its new Export Sales director. His initial focus will be to develop major key accounts across Europe, along with supporting existing customers and expanding the dealer network.

Before joining Palazzani, Mr. Teoldi worked for more than 25 years

at Brembo S.p.A., a world-renowned manufacturer of braking systems for passenger cars, motorcycles and racing where he was race engineer before being appointed as market manager with the aim to develop a worldwide distributors network while developing the product portfolio along with the sales strategies for Performance Parts.

2025 is an exciting year for Palazzani, as it will be the  $90^{\mbox{\tiny th}}$  anniversary of the company.

Source: Palazzani Industrie S.p.A.

**CRR Inc.**, the general partner of Canadian Resource Roadways LP recently announced the appointment of Stefan (Stef) Dilger as an independent director to its board of directors.

Mr. Dilger is vice president, Finance & CFO at Ricochet Oil Corp., a private Alberta-based oil and gas producer. He also serves as President of VENTURI Energy Limited, a family office company. He was a previously a director at RBC Capital Markets advising on mergers and acquisitions, dispositions, joint ventures and capital markets transactions. During his time at RBC, he progressed rapidly through increasingly senior roles, earning a reputation for strategic insight and deal execution.

Stefan Dilger has been an integral part of CRR's journey. Initially serving as an advisor through RBC, he played a foundational role in the partnership's formation, capitalization and initial transactions. His continued involvement as a board member reflects his long-standing commitment to CRR's success and strategic growth.

Mr. Dilger holds a Bachelor of Commerce in Accounting & Finance (Distinction) from Dalhousie University, in Halifax.

CRR is an infrastructure business focused on owning and operating industrial access roads in Canada's resource sectors. By partnering with CRR, resource companies can monetize their non-core road assets, redeploy capital into core operations, and benefit from CRR's leading road maintenance and administrationcapabilities. Headquartered in Calgary, CRR is owned by



funds managed by CBRE Investment Management, a leading global real assets manager, and its management team. Source: Canadian Resource Roadways LP

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**Carbon Upcycling Technologies** recently announced the appointment of **Markus Kritzler** as chief revenue officer. With over 20 years of strategy and executive experience, Mr. Kritzler joins Carbon Upcycling at a pivotal time as the company advances toward its flagship commercial-scale project at one of Canada's largest cement plants.



Markus Kritzler served as head of Group Strategy at Holcim Group from

2011 to 2020, where he managed strategic projects and resource allocation across North America, Latin America, Asia Pacific, Europe, and the Middle East Africa. During his tenure, he played a key role in the historic multibillion-dollar merger of building materials giants Holcim and Lafarge. He also served as managing director at 414 Capital and Ingenia Capital, building an impressive track record of over 70 M&A transactions, spanning early-stage investments, middle-market deals, and large corporate acquisitions.

Markus Kritzler's leadership in strategic partnerships and team development within the cement industry will be instrumental in driving Carbon Upcycling's expansion across North America and Europe. His expertise comes at a significant time as the company prepares to launch its commercial-scale facility at a Canadian cement plant. This first-of-its-kind project will advance local, low-carbon construction by domestically manufacturing supplementary cementitious materials from upcycled CO<sub>2</sub> emissions and steel byproducts.

Source: Carbon Upcycling Technologies

**Raymond Gatcliffe** has recently been appointed Country officer and CEO for **Citibank Canada**, effective April 1<sup>st</sup>, 2025. He succeeds John Hastings who will stay on as a member of the Citibank Canada board of directors.

Mr. Gatcliffe will be responsible for the in-country execution of the bank's strategy to be the preeminent banking partner for institutions with crossborder needs and a global leader in



wealth management. He will also be responsible for the delivery of the firm-wide transformation in Canada, fostering successful client relationships at all levels of the organization, and protecting and enhancing Citi's reputation in the country in addition to being the main regulatory representative for Citi in Canada.

Raymond Gatcliffe has 30 years of banking experience with Citi

across several regions and roles. Prior to this appointment, he was based in New York as the North American head of Citi's Commercial Bank. He has also led Citi's Commercial Bank in Europe, the Middle East and Africa based in London, and Citi's Regional Corporate and Investment Banking business for Central America and the Caribbean based in Miami. He first began his career at Citi Trinidad in 1994.

Source: Citibank Canada

Dacke Industri recently announced the appointment of **Ben Söderling** as the new CEO of **Sovellusmestarit Oy** and **MoveRoll Oy**.

With international business experience and a solid engineering background, Mr. Söderling is perfectly positioned to lead the company into its next phase of growth.

Throughout his career, he has held various positions in business develop-



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ment and leadership. Ben served in several roles at Sarlin Oy AB in Finland and CompAir UK Ltd, gaining invaluable experience over many years. Most recently, he was with Havator Oy, where he was vice president of Heavy Equipment. There, he gained experience in the business of lifting and transport services for industries in Finland and Sweden, focusing on heavy manufacturing, construction, and the wind sectors.

"Our strategic acquisition of MoveRoll last year has strengthened our position in roll handling and air technology solutions. With Ben and 2 established brands under one leadership, we will drive cooperation and growth for both companies together with our customers," said Mika Virtanen, president Air Technology & Electromechanics of Dacke Industri.

Sovellusmestarit Oy is an independent subsidiary of Pimatic Oy. It specializes in compressed air, instrumentation, and flow technology and offers its customers added value with cost-saving solutions. Its primary services include contract manufacturing, planning, training, testing and sales of a wide range of instrumentation products. Sovellusmestarit Oy is headquartered in Porvoo, Finland, employing about 15 people.

MoveRoll Oy is an independent subsidiary of Sovellusmestarit Oy. MoveRoll's roll-handling products are unique and innovative. They can easily be integrated into roll handling systems and offer a simple and innovative way to gently convey or receive different industries roll handling. The major benefits of their conveyors, kickers, receivers, and braking pads are increased safety, energy savings, easy installation and maintenance, ease of use, and product reliability.

Source: Dacke Industri

Send us your appointment notices or your job openings

ADVANCE, a manufacturer of front discharge concrete mixer trucks, recently announced the appointment of Phil Vierno as the new regional sales manager for the Northeast territory. A seasoned professional with a strong technical foundation, he brings a wealth of experience to the role, offering expertise and a commitment to exceptional client service.

Born and raised in New Jersey, he earned his degree in Mechanical Engineering from Rutgers University, before beginning a successful career

in technical fields. His professional journey includes significant experience in medical device manufacturing, where he developed a deep understanding of product innovation and quality control. For the past 5 years, Phil Vierno has honed his expertise in heavy-duty truck sales, where he became well-versed in industrial equipment and cultivating strong client relationships.

Mr. Vierno takes over the position previously held by Sam Cimilluca, a respected industry veteran known for his hands-on approach and extensive knowledge. While Sam's legacy remains a standard of excellence. Phil is eager to build on that foundation, bringing his own blend of technical expertise and commitment to open communication.

Source: Terex Corporation

The Goodyear Tire & Rubber Company recently announced that David Anckaert has been named chief of Product Strategy and Planning, reporting to CEO and president Mark Stewart, effective immediately.

"David is a natural fit to lead the development of Goodyear's global product, services and solutions portfolio to maximize our end-to-end customer value proposition," said Mr. Stewart. "I am confident that David's leadership and our talented product teams around the world will enable a globally connected approach that will provide vitality in the marketplace and fill white space with Goodyear's industry-leading products."

David Anckaert joined Goodyear in 2000 and has held a succession of positions in R&D, sales and marketing. In 2018, he was named vice president, Commercial Europe, and after that, served as vice president, Consumer Replacement Europe. Most recently, Anckaert served as vice president of the Europe, Middle East and Africa Consumer business.

As chief of Product Strategy and Planning, Mr. Anckaert will lead Goodyear's product roadmap and lifecycle planning, leveraging data-driven market insights to identify opportunities, drive innovation and develop a winning global product portfolio.

Source: The Goodyear Tire & Rubber Company





# Agenda

**AORS Public Works Municipal Trade Show** June 4-5, 2025

Woodstock, ON Canada

- demopark June 22-24, 2025 Hörselberg, Germany American Welding Society Welding Summit 2025 August 6-8, 2025 The Woodlands, TX USA
- ATRA Powertrain Expo 2025 September 3-7, 2025 San Antonio, TX USA
- RE+ 2025 September 8-11, 2025 Las Vegas, NV USA
- APOM Technical Day September 11, 2025 Shawinigan, OC Canada
- inter airport Europe 2025 October 7-9, 2025 Munich, Germany
- The Utility Expo October 7-9, 2025
- Louisville, KY USA Equip Exposition / Hardscape North America
- October 15-18, 2025 Louisville, KY USA
- International Mining and Resources Conference (IMARC) Otober 23-25, 2025 Sydney, NSW Australia
- Agritechnica November 9-15, 2025 Hanover, Germany
- Systems & Components November 9-15, 2025
- Hanover, Germany International WorkBoat Show December 3-5, 2025
- New Orleans, LA USA PDAC 2026 March 1-4, 2026
- Toronto, ON Canada CONEXPO-CON/AGG
- March 3-7, 2026 Las Vegas, NV USA
- Work Truck Week March 10-13, 2026
- Indianapolis, IN USA FDIC 2026
- April 20-25, 2026 Indianapolis, IN USA 2026 CGA Conference & Expo
- April 27-30, 2026 Colorado Springs, CO USA Hillhead 2026
- June 23-25, 2026 Buxton, Derbyshire UK GaLaBau 2026
- September 15-18, 2026 Nuremberg, Germ
- ARA Show March 2-4, 2026
- Orlando, FL USA FDIC 2026
- April 20-25, 2026 Indianapolis, IN USA
- World of Asphalt/AGG1 2027 March 15-17, 2027
- New Orleans, LA USA **INTERMAT** Paris April 21-24, 2027 Paris France bauma 2028
- April 3-9, 2028 Munich, Germany



CONEXPO

CON/AGO

bauma

# TAKING CONSTRUCTION



2023 Attendee Mike Simon. Dirt Perfect Excavation

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