

SOUTHEAST ASIA CONSTRUCTION

MARCH - APRIL 2025



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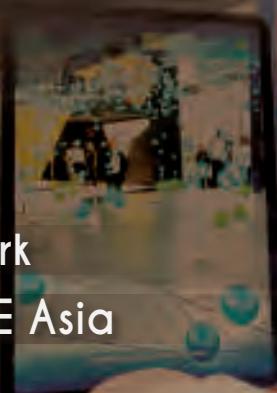
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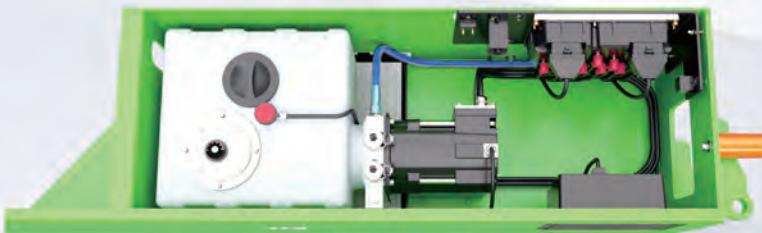
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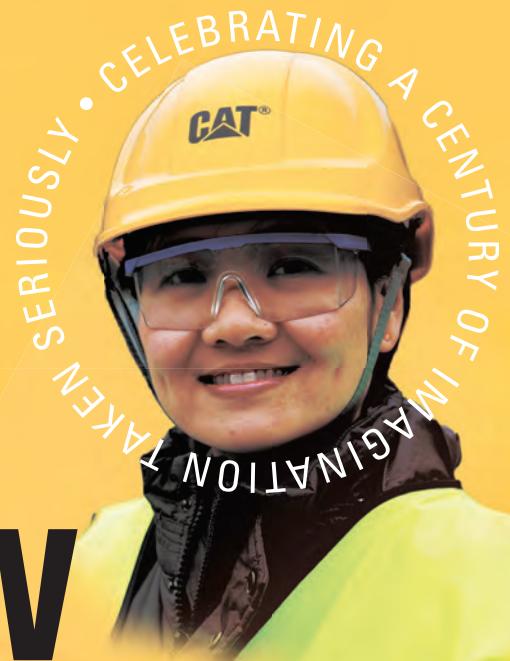
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STABLE BUILDINGS



Stable buildings are designed and constructed for strength, durability, and long-term resilience. These structures withstand natural disasters and adapt to changing conditions, prioritizing safety and reliability. By utilizing advanced engineering techniques and sustainable materials, stable buildings not only ensure the well-being of occupants but also minimize environmental impact, setting a foundation for a safer and greener future.

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SUSTAINABILITY



Planning and executing construction with consideration for long-term environmental, social, and economic impacts. This involves not only completing buildings but also emphasizing the balance between development and natural resource preservation, ensuring that the planet and communities can coexist harmoniously with a good quality of life in the future.

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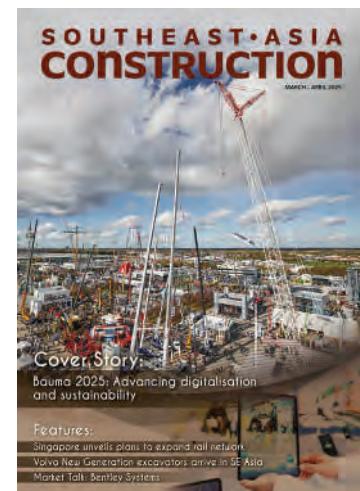
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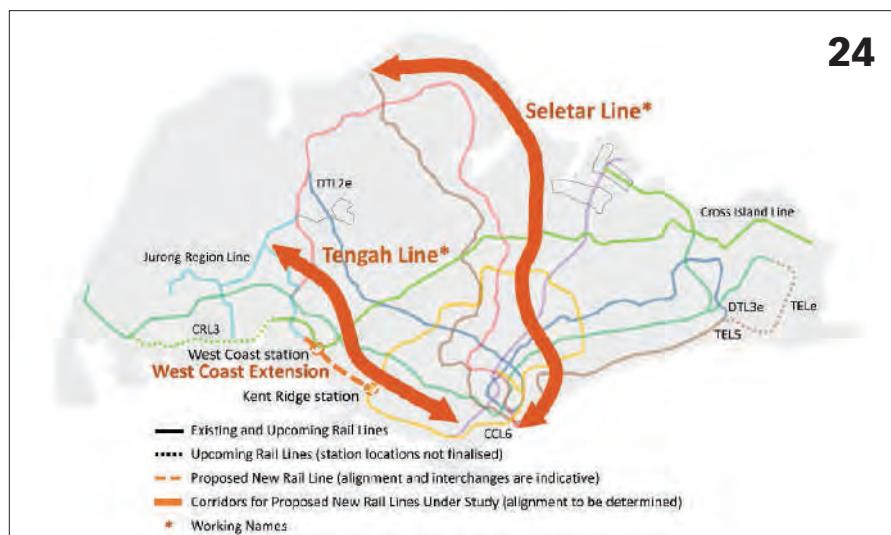


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On the cover:
Bauma, the world's largest trade show for construction and mining equipment (page 44)

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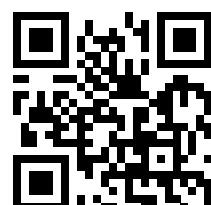
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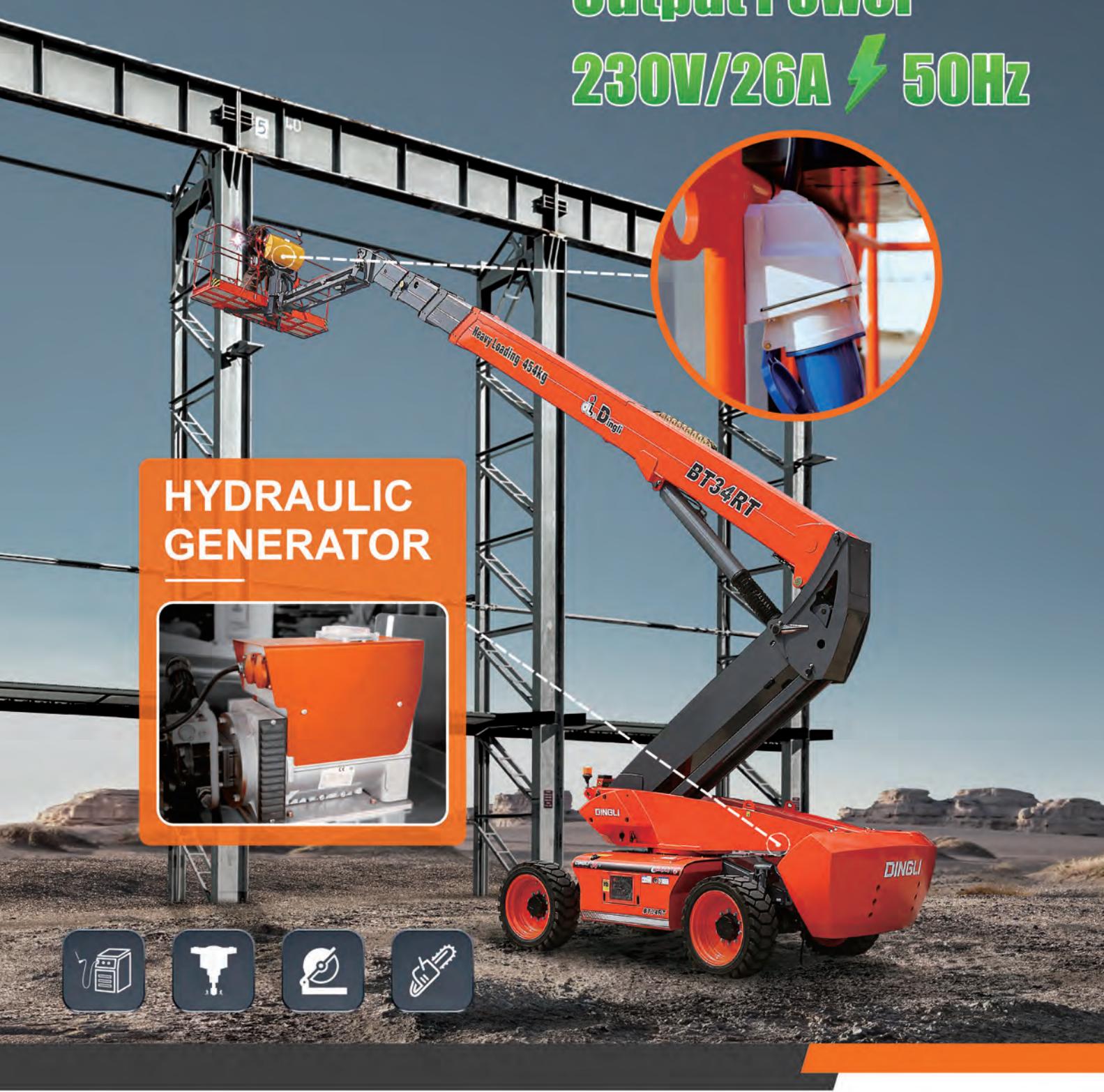
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BENCHMARK ON 7 AXLES

The Tadano AC 7.450-1 is in a class of its own: With a carrier length of 15.99 m and an outrigger base of 8.45 m, it is as compact as a six-axle crane, and yet is as powerful as some eight-axle cranes. In fact, the AC 7.450-1 can reach lifting capacities of up to 23.7 tonnes when its 80 m main boom is fully extended, and that is without even using the SSL system. Bring in SSL, and the lifting capacity goes up to an unbeatable 37.3 tonnes. In addition, Tadano is using a new Sideways Superlift design for the first time ever in the AC 7.450-1 – one that makes handling and setup easier. The system can be extended with an 81 m luffing jib, and the sections of this jib can also be used to assemble fixed extensions.

Reaching new  heights

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Malaysia's MRT Corp and Sunway to build mixed-use development in Bukit Chagar, Johor Bahru

MRT Corporation (MRT Corp) and Sunway Integrated Properties Sdn Bhd, a wholly owned subsidiary of Sunway Berhad, have signed an agreement to jointly develop an integrated mixed-use development adjacent to the Bukit Chagar RTS Link Station in Johor Bahru, Malaysia.

The Bukit Chagar integrated mixed-use development, spanning 4.23 acres of prime land, will be fully integrated and seamlessly linked with the ICQ Complex and Bukit Chagar RTS Station, which directly connects Johor Bahru and Woodlands North Station in Singapore.

The new development will feature:

- RTS multi-storey car park – featuring 1,550 car parks and 1,015 motorbike bays, ensuring ample parking for RTS commuters and visitors alike. This is a key infrastructure addition in anticipation of the RTS Link's operations.
- High-rise residences – sitting atop retail and commercial areas for professionals commuting between Johor Bahru and Singapore.
- Retail mall and educational institutions – combining shopping, dining and educational facilities in a single dynamic hub.
- Health and wellness hub – providing access to quality healthcare, with dedicated facilities to support community well-being and to potentially promote medical tourism.
- Hospitality component – offering a range of accommodations and meeting spaces for tourists and business travellers alike that will position Bukit Chagar as a vibrant economic hub.

Construction of the project is scheduled to commence in March 2025, with the first phase of the multi-storey park and ride facility, featuring an estimated 850 car park bays and 1,015 motorcycle parking spaces, targeted for public opening by 30 November 2026.

Minister of Transport Malaysia, YB Anthony Loke Siew Fook, emphasised that the Bukit Chagar integrated development is a key pillar of Malaysia's broader strategy to enhance public transport connectivity, reduce congestion and drive urban transformation. He stressed that improved mobility must be complemented by liveable, well-planned urban spaces that support the daily lives of the 'rakyat' [people] and reaffirmed that this development is designed to achieve exactly that.

He further commended MRT Corp's Rail Plus Property model, which ensures that investments in public transportation generate sustainable economic benefits. By reducing reliance on government funding and unlocking new revenue streams, the model strengthens Malaysia's infrastructure development strategy.

"The Bukit Chagar integrated mixed-use development represents a fundamental shift for MRT Corp as we integrate large-scale property rejuvenation alongside our rail infrastructure development," said Datuk Mohd Zarif Hashim, CEO of MRT Corp. "Through the Rail Plus Property model, we are optimising land use to create a sustainable, transit-oriented ecosystem that ensures the long-term sustainability of this development while enhancing the mobility of people."

"Our approach ensures that we are not only enhancing mobility, but also advancing the government's national infrastructure aspirations by driving urban transformation and economic expansion. As Malaysia continues to expand its transit networks,



The new mixed-use development will be fully integrated and seamlessly linked with the ICQ Complex and Bukit Chagar RTS Station, which directly connects Johor Bahru and Woodlands North Station in Singapore.



Construction of the project is scheduled to commence in March 2025, with the first phase of the multi-storey park and ride facility targeted for public opening by 30 November 2026.

Both images: MRT Corp/Sunway

Bukit Chagar will serve as a blueprint for how we can modernise and rejuvenate city spaces around transit hubs, ensuring that infrastructure investments continue to deliver long-term value for generations to come."

Sunway Group founder and chairman, Tan Sri Dato' Seri Sir Dr. Jeffrey Cheah KBE AO, said, "We look forward to this public-private partnership with MRT Corp in developing one of the first Rail Plus Property projects in Malaysia. This integrated mixed-use development with a gross development value of more than RM2.6 billion will serve as a catalyst for economic growth across the Greater Johor Bahru area."

"This development solidifies Sunway's presence at the First Link (Causeway) and the Second Link. It will also complement our Johor development portfolio alongside our 2,000-acre Sunway City Iskandar Puteri, which is a five-minute drive from the Second Link and modelled after Sunway City Kuala Lumpur, Malaysia's first integrated, green and sustainable township."

"As a Malaysian organisation committed to nation-building with our unique build-own-operate business model, I am confident that this strategic partnership will transform Johor Bahru into an international gateway city, contributing to the economic prosperity of Malaysia and Singapore." ■



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MDC deploys Philippines' 'first' electric heavy equipment

Makati Development Corporation (MDC), the construction arm of Ayala Land, has unveiled its new electric concrete mixer truck and electric trailer tractor, as well as the charging station for these electric machines – all of which are set to revolutionise the company's operations at its construction, precast and concrete manufacturing plants.

Ayala Land said these are also the first electric heavy equipment and charging station in the Philippines. The MDC Technology Centre in Sto. Tomas, Batangas, houses state-of-the-art precast, concrete and metal-forming manufacturing facilities, along with the company's heavy equipment motor pool.

Supporting Ayala Land's carbon neutrality target for 2030 and the Ayala Group's net-zero greenhouse gas emissions target for 2050, MDC has taken steps towards integrating electric vehicles (EV) and renewable energy sources into its construction operations. The initiative began with the acquisition of an electric concrete mixer and an electric trailer tractor from Sany, alongside three BYD Atto electric service vehicles from AC Mobility.

As part of the necessary infrastructure for this electric fleet, MDC has also installed the EV charging stations at key locations: the MDC Corporate Centre at Arca South in Taguig City, the MDC concrete batching plant at Circuit Makati, and the MDC Technology Centre in Sto. Tomas, Batangas.

Carbon emissions mitigation using electric vehicles and renewable energy sources is one of the cornerstones of MDC's sustainability framework, which tackles a reinvention of business-as-usual practices by mobilising its ecosystem of employees, workers and business partners to embrace responsible construction practices.

Based on MDC's 2021 baseline emissions, the company is projecting to avoid approximately 10,000 t of carbon emissions



Both images: Ayala Land



ABOVE AND LEFT:
MDC's new electric
concrete mixer truck
and electric trailer
tractor, along with
the charging station
for this electric fleet.

annually once the transition has been fully realised. Other focus areas include internal stakeholder management and community development, sustainable supply chain, ecosystem site protection and sustainable design, and green construction technologies.

MDC also adopts design for modular construction (DfMC) method at its 3D prefabricated bathroom unit (PBU) manufacturing plant to reduce construction waste, enhance building precision and quality, and shorten project delivery timelines. To date, the company has achieved 46% adoption rate of its operations into DfMC. ■

Siam City Concrete, Amata partner to foster green construction in Thailand

Siam City Concrete (INSEE Concrete) and Amata Corporation have signed a memorandum of understanding (MOU) to promote sustainable construction. This partnership aims to support Thailand's transition to a low-carbon economy through the use of sustainable building materials in industrial and infrastructure projects.

INSEE Concrete, under the Siam City Cement Group, is committed to achieving net-zero greenhouse gas emissions by 2065, in alignment with Thailand's national determined contributions (NDCs). Additionally, the company has been certified with the carbon footprint certification from the Thailand Greenhouse Gas Management Organisation (TGO). Among the Siam City Concrete's portfolio, 14 products, including ready-mixed concrete with compressive strengths ranging from 180-800 ksc, have been certified for carbon footprint reduction.

Craig Stewart Bickley, CEO of Siam City Concrete, emphasised the importance of sustainable construction in driving long-term environmental benefits and highlighted the longstanding partnership between Amata and INSEE Concrete, founded on shared principles of ethical and sustainable business practices according to the Siam City Cement Group Sustainability Ambition 2030. He also introduced 'INSEE Petch Easy Flow,' a hydraulic



This
partnership
will support
Thailand's
transition to
a low-carbon
economy
through
the use of
sustainable
building
materials in
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infrastructure
projects.

cement with high-compressive, eco-friendly concrete designed for durability and ease of use across various applications.

Under the theme 'Change for a Better World', both companies are committed to advancing a low-carbon society and fostering a green industrial city in Thailand. This collaboration marks a significant step in raising industry awareness and driving meaningful action towards sustainability. ■

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Singapore's construction demand to remain strong, up to S\$53 bil contracts expected in 2025

The Building and Construction Authority (BCA) projects the total construction demand (i.e. the value of construction contracts to be awarded) in Singapore this year to range between S\$47 billion and S\$53 billion in nominal terms. Normalised to real values, 2025's demand is projected to range between S\$35 billion and S\$39 billion, which is 0.3%-11.7% higher than pre-Covid levels in 2019.

The strong demand is underpinned by the expected award of contracts for several large-scale developments, such as Changi Airport Terminal 5 (T5) and the expansion of the Marina Bay Sands Integrated Resort, alongside public housing development and upgrading works.

Other projects include high-specification industrial buildings, educational developments, healthcare facilities, mechanical and engineering contracts for the Thomson-East Coast Line Extension (TEL) and Cross Island Line (CRL), and infrastructure works for the Woodlands Checkpoint extension and Tuas Port.

The preliminary total construction demand for 2024 reached S\$44.2 billion in nominal terms, exceeding BCA's mid-year revised forecast of between S\$35 billion and S\$41 billion. This was mainly attributed to the rolling out of more public institutional projects, as well as public and private housing projects.

Construction output and medium-term forecast

Based on the contracts awarded in the past few years and the construction demand forecast for 2025, the total nominal construction output is projected to increase to between S\$39 billion and S\$42 billion in 2025, up from the preliminary estimate of about S\$38.4 billion in 2024.

This anticipated uptrend is expected to be supported by the increase in actual construction demand over the last few years and the expected increase in 2025 construction demand. Normalised to real values, the total construction output in 2025 is projected to range between S\$30 billion and S\$32 billion, which is slightly higher than that in 2019.

Over the medium-term, BCA expects the total construction demand to reach an average of between S\$39 billion and S\$46 billion per year from 2026 to 2029.

The medium-term demand will continue to be supported by developments such as T5, a steady pipeline of public housing developments, MRT projects like the Cross Island Line (Phase 3) and the Downtown Line Extension to Sungei Kadut, Integrated Waste Management Facility (Phase 2), Tengah General and Community Hospital, Siglap South Integrated Development, Woodlands North Coast industrial estate, redevelopment of various Junior Colleges, commercial building redevelopments, and other urban rejuvenation developments.

While the medium-term construction demand is projected to be robust, BCA said the schedules and phasing of projects are subject to change, particularly due to potential unforeseen risks arising from an uncertain global economic climate. Furthermore, as the T5 development is likely to be a one-off exceptional project over the medium term, overall industry demand could eventually moderate after this period.

Corenet X implementation timeline

Over the past year, the regulatory government agencies have

been working closely with industry partners and practitioners on Corenet X, a one-stop digital platform for integrated regulatory submissions for building works. BCA noted that feedback from industry has been useful in refining the processes and the platform.

The hands-on experience gained from going through the new regulatory processes in actual projects were invaluable in strengthening collaboration amongst project teams and fostering better understanding of the new Corenet X requirements, added BCA. Insights gleaned from these projects also helped project parties to review their internal processes to be able to leverage Corenet X for more streamlined workflows across the value chain.

"We recognise that Corenet X entails significant changes to existing workflows, and that some firms need more time to adjust internal processes and familiarise themselves with the new requirements," said BCA. "In addition, smaller consultancy firms may not have had sufficient projects to try out the new processes during the voluntary submissions phase."

With that in mind, BCA has adjusted the timeline for the implementation of Corenet X as follows:

- 1 October 2025: Mandatory Corenet X submission for all new projects with gross floor area (GFA) $\geq 30,000$ sq m
- 1 October 2026: Mandatory Corenet X submission for all new projects, regardless of GFA
- 1 October 2027: Mandatory onboarding to Corenet X for all ongoing projects

For smaller-sized new projects with GFA below 30,000 sq m, BCA encourages project teams to take the opportunity to make submissions through Corenet X ahead of the mandatory timelines to familiarise themselves with the new process and submission portal.

New NEC4 clauses for collaborative contracting

Aside from Corenet X, the built environment sector is also fostering closer collaboration via collaborative contracting. This method facilitates deeper collaboration amongst developers, consultants and builders.

In 2024, BCA, together with NEC, launched an additional set of contract clauses (Y clauses) to adapt the NEC4 contract form with Singapore's laws. To further support the adoption of NEC4 contracts in Singapore, BCA has developed additional clauses (W and Z clauses) that incorporate local dispute resolution protocols, current government procurement rules, and established local industry practices.

- W clauses: Dispute resolution options incorporating local dispute resolution protocols and practices, such as the Singapore Infrastructure Dispute-Management Protocol 2018 (SIDP) and appointment of senior representatives for dispute resolution.
- Z clauses: Additional conditions of contract for project-specific requirements that take into consideration public sector procurement requirements and local practices. This includes the use of eGuarantee template, Progressive Wage Mark requirements and suitable project response timelines.

In addition, BCA Academy, industry associations (e.g. the Society of Construction Law), and Institutes of Higher Learning (e.g. Singapore University of Social Sciences), and other training providers have introduced programmes to build up the relevant skills and competencies in collaborative contracting among firms. ■

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Hong Kong's iconic Kai Tak Sports Park opens

Kai Tak Sports Park (KTSP) officially opened on 1 March 2025 as the largest integrated sports and entertainment complex in Hong Kong. Arup was the engineering consultant for this iconic development, which is designed to cater to the city's unique urban environment and its vibrant community.

Central to the park is the 50,000-seat Kai Tak Stadium, dubbed as the 'Pearl of the Orient'. Designed to address Hong Kong's humid sub-tropical climate, the stadium features one of the world's largest retractable roofs and a flexible pitch surface, allowing the venue to host a variety of events in any weather.

The retractable roof, weighing nearly 4,800 t, operates quietly and can open or close in just 30 minutes using advanced mechanisms similar to railway technology. To support this massive roof, Arup engineered a bespoke structure with four mega trusses spanning between 150 and 180 m, anchoring on four bearing-free reinforced concrete towers at the corners to ensure an unobstructed view for every spectator. Building information modelling (BIM) was fully adopted to optimise the structural design, ensuring constructability and minimising steel use.

Given the stadium's proximity to residential areas, the retractable roof is acoustically sealed when closed, using sound-proof barriers and heavy cladding panels to dampen low-frequency sound, making the stadium one of the most efficient soundproofing sports facilities in the world.

The stadium boasts a pioneering air-conditioning system activated when the roof is closed. This system adopts a bowl cooling method with individual outlets beneath each seat, circulating cool air in spectator areas without having to cool the entire stadium. This approach optimises spectator comfort while enhancing energy efficiency.

The successful implementation of the air-conditioning system is a result of the meticulous coordination and integration between structural and MEP engineering. Advanced precast construction techniques have been used alongside an innovative multi-trade integrated MEP (MiMEP) design approach, setting high standards



Image: Arup

Central to the development is the 50,000-seat Kai Tak Stadium, which features one of the world's largest retractable roofs.

in both functionality and sustainability.

Pedestrian access to KTSP is seamlessly integrated at the podium level, ensuring safe and convenient visitor movement without the need to cross busy roads. The facilities throughout the park are interconnected through paths and walkways.

Arup's total engineering services for KTSP extend to the 10,000-seat Kai Tak Arena, the 5,000-seat Youth Sports Ground, and various retail and leisure spaces.

Working in close collaboration with the Culture, Sports and Tourism Bureau, Kai Tak Sports Park Limited, Hip Hing Engineering Co Ltd, Populous, Simon Kwan & Associates Ltd, and ADI Limited, Arup provided civil, structural, geotechnical and building services engineering, as well as traffic, fire engineering, facade, acoustics, audio-visual, sports lighting, advanced digital engineering, security, environmental and sustainability consulting. ■

CIMA launches Malaysia's 'first' Portland limestone cement with 52.5 strength

Cement Industries of Malaysia Bhd (CIMA), a wholly-owned subsidiary of UEM Group Bhd, has launched its latest green innovation, NS OptimoCrete. The company said this is Malaysia's first Portland limestone cement (PLC) with a strength of 52.5.

NS OptimoCrete, available in both bulk and 50 kg bag forms, with the latter known as NS OptimoCast, sets a new benchmark in versatility by offering robust solutions for various applications, including ready-mixed concrete, precast components, bridge decks, grouts, soil stabilisation and full-depth pavement reclamation. This innovative product offers superior strength compared to currently available blended cements, ensuring excellent quality and durability.

As a sustainable and more eco-friendly alternative to ordinary portland cement (OPC), NS OptimoCrete offers outstanding quality and performance with enhanced sustainability. It meets the high standards of traditional OPC in terms of compressive strength, durability, workability and finish quality, while being more environment-friendly. With the capability to reduce embodied

carbon dioxide by up to 10%, it actively helps decrease the carbon footprint associated with construction activities.

Developed through over 12 months of extensive research and development (R&D) efforts, NS OptimoCrete represents another step forward in CIMA's commitment to innovation and environmental stewardship. This launch builds on the successful introduction of its green products since 2010, including NS EcoCrete, NS EcoCrete Low Heat and NS Ezicast.

Additionally, the company introduced HydroPave as its eco-friendly ready-mix concrete last year, promoting sustainable water management by allowing water to permeate through the surface rather than pooling or running off, which not only reduces the risk of flooding but also helps recharge groundwater supplies.

"In alignment with the government's carbon neutrality target by 2050, CIMA actively explores avenues to diversify our product offerings, anticipating and meeting the rapidly evolving demands of our customers," said Hairol Azizi Tajudin, managing director of CIMA. ■

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Sin Heng acquires 600th Kobelco crane

Singapore's Sin Heng Heavy Machinery has ordered its 600th crane from Kobelco Construction Machinery, marking a new milestone for both companies. "This milestone highlights a decade-long partnership built on innovation, reliability and mutual growth," said Sin Heng.

The achievement of 600 units is also a record for Kobelco Construction Machinery's distributors globally, according to Akira Yamamoto, president and CEO of Kobelco Construction Machinery.

"Since our first purchase, the collaboration between Sin Heng and Kobelco Construction Machinery has thrived on shared values of excellence and commitment to quality," explained Sin Heng. "Our decision to source cranes from Kobelco Construction Machinery was driven by several compelling factors that have consistently proven to be game-changers in our industry.

"Renowned for their exceptional quality, good resale value and remarkable durability, Kobelco Construction Machinery cranes have set industry benchmarks and played a pivotal role in our success. This 600th crane is not just a symbol of our business achievement but also a testament to the enduring strength of our partnership."

As a long-time customer and an authorised distributor of the Japanese manufacturer, Sin Heng pointed out that the good resale value of Kobelco cranes offers a major advantage, especially in an industry where equipment depreciation can significantly impact financial performance. "It enhances our financial stability and allows us to reinvest continually in our operations."

"Kobelco Construction Machinery's advanced engineering and stringent quality ensure reliable, low-maintenance cranes, minimising downtime and boosting our operational efficiency to deliver top-notch service," added Sin Heng.

"This is the result of the high-level management philosophy and strong will of the founder, the chairman, Mr. Tan Ah Lye, and the director Mr. Tan Cheng Guan, who is carrying his thought forward. I highly respect the teamwork of all the members of Sin Heng and their professionalism," commented Takeshi Miyashita, general manager of international crane business at Kobelco Construction Machinery.

"I am delighted that we were able to



ABOVE: Kobelco presents a token of appreciation gift to Sin Heng to commemorate the purchase of the 600th crane.

LEFT: Kobelco and Sin Heng celebrate the new milestone with a traditional Japanese ceremony.

BELLOW: The 600th crane order also reflects a strong, decade-long partnership between Kobelco and Sin Heng.



successfully celebrate this occasion today, however, it has not been an easy story to achieve 600 units," said Mr Miyashita, further acknowledging that both Sin Heng and Kobelco Construction Machinery

are "standing in a hard circumstance of the global competition. It is essential for us to continue tough discussion and collaboration in order to survive in the market and achieve the next 700 units." ■

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Pile Dynamics expands operations with third facility

US-based global manufacturer Pile Dynamics Inc (PDI) has expanded its operations with the opening of a third facility in Solon, Ohio. Since its founding in 1972, PDI has been headquartered in Cleveland, innovating the deep foundations industry with cutting-edge testing equipment and technologies used onshore and offshore around the globe.

Opened in late 2024, the new facility on Cochran Road adds 9,000 sq ft to PDI's existing 49,000 sq ft of operational space. This expansion accommodates the relocation of Surface Mount Technology (SMT) operations from the corporate headquarters and now houses the assembly and testing of the Pile Installation Recorder (PIR), Shaft Area Profile Evaluator (SHAPE) and Shaft Quantitative Inspection Device (SQUID) systems. It also introduces a second shipping location for these systems, as well as for rentals, repairs and new Thermal Wire cable orders.

"The growth of our business over the past several years has outpaced the capacity of our corporate headquarters," said George Piscsalko, president of PDI. "This new facility meets our current needs and positions us for continued growth."



Pile Dynamics Inc (PDI) opens its third operations facility in Solon, Ohio.

In 2022, PDI secured space in the Cochran Road facility to centralise its Thermal Wire cable assembly and warehousing. With the latest expansion, PDI's total operational space has increased by 50%. "We were fortunate that additional space next to our initial Cochran Road facility became available exactly when we needed it," added Mr Piscsalko.

The former SMT space at PDI's corporate headquarters has been repurposed into a dedicated service centre for repairing PDI equipment and accessories and facilitates GRL Engineers' service and equipment storage hub. The corporate office continues to support sales and marketing, new product development, software and electrical engineering, production, and warehousing.

PDI's commitment to quality and customer support has earned it a global network of sales representatives spanning the Far East, Europe, South America and Australia. The company offers various products that enhance deep foundation quality assurance on jobsites in over 100 countries. ■



PDI's corporate office in Cleveland, Ohio. The company has established a global network of sales representatives spanning the Far East, Europe, South America and Australia.

VDMA: Construction equipment industry expects slow recovery

After a record year in 2023, sales of construction equipment produced in Germany fell in 2024 by 21% in real terms and 20% in nominal terms, according to VDMA, the organisation representing 3,600 German and European mechanical and plant engineering companies. The biggest decline was in construction equipment (down 26%), followed by earthmoving equipment (down 23%), and road construction equipment (down 14%).

One of the main reasons for this is that sales of construction equipment in the home market of Germany slumped by 31%, the biggest decline since 2009. The European market also saw sales fall by more than 20%. The gloomy global economy meant that exports outside Europe were unable to improve the picture significantly.

At the VDMA's annual construction equipment manufacturers' conference in Frankfurt on 14 February 2025, the general consensus was that manufacturers expect sales to grow by around 5% in 2025, if the framework conditions for companies are right. 'Everyone has to play their part,' said VDMA.

"A stable government here in Germany is a basic prerequisite, especially as the construction equipment industry's business

in North America is on shaky ground due to the new US administration," emphasised Joachim Strobel, chairman of the VDMA Construction – Equipment and Plant Engineering association.

"We can only continue to appeal to politicians in Germany and Europe to finally take measures to reduce bureaucracy and deregulation," added Franz-Josef Paus, chairman of the VDMA Construction Equipment Division.

The main risks are a delay in the formation of a government in Germany after 23 February, continued unfair competition from Chinese manufacturers and geopolitical tensions. The main markets of Europe and North America are unpredictable, while the Middle East, especially Saudi Arabia which is currently a booming region, is offering opportunities.

The industry is expecting positive momentum from bauma, to be held on 7-13 April 2025. The world's largest trade fair in terms of exhibition space is fully booked and the VDMA, as conceptual sponsor, will be present with an extensive supporting programme. ■



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Singapore unveils plans to expand rail network

Singapore's rail network is set to expand as announced at the Ministry of Transport's (MOT) Committee of Supply debate on 5 March 2025. The Land Transport Authority (LTA) plans to proceed with the West Coast Extension, which extends the Jurong Region Line to connect with the Circle Line and Cross Island Line. Feasibility studies are also ongoing for new rail lines to further improve access to public transport. Concurrent with these expansion efforts, additional investments will be made to support tripartite efforts to maintain the reliability of the existing rail network.

Ongoing rail projects

Rail projects across Singapore continue to make steady progress. Hume Station on the Downtown Line (DTL) opened for passenger service on 28 February 2025, while phase 2 of the Cross Island Line (CRL) is expected to break ground in the first half of 2025. Circle Line (CCL) stage 6, which closes the circle between HarbourFront and Marina Bay Stations via three new stations, is due to be completed in the first half of 2026.

Another three new stations as part of Thomson-East Coast Line Stage 5 (TEL5) and Downtown Line 3 extension (DTL3e) are scheduled to open in the second half of 2026. "We have also commenced electrical, mechanical and track works for Jurong Region Line Stage 1 (JRL1), which is on track to open in 2027, followed by the next two stages of the JRL in 2028 and 2029. From 2030, we will progressively open our eighth MRT Line, the Cross Island Line," shared MOT.

"As we press forward with our ongoing rail projects, the government remains committed to our long-term vision under the Land Transport Master Plan of having eight in 10 households be within a 10-minute walk from a train station by the 2030s."

West Coast Extension

LTA has been studying a West Coast Extension (WCE) to further improve rail connectivity in the west. This line is planned to be implemented in two phases:

- The first phase will extend the JRL from Pandan Reservoir Station to connect with the CRL at West Coast Station by the late 2030s.
- In the second phase, the current plan is to further extend the JRL from West Coast Station to connect with the CCL at Kent Ridge Station by the early 2040s.

The WCE will provide residents in the west time savings of up to 20 minutes for journeys towards the city centre. It will also strengthen the resilience of Singapore's rail network by providing alternative travel options to the city centre via the Circle Line, as well as to other parts of the country via the Cross Island Line.

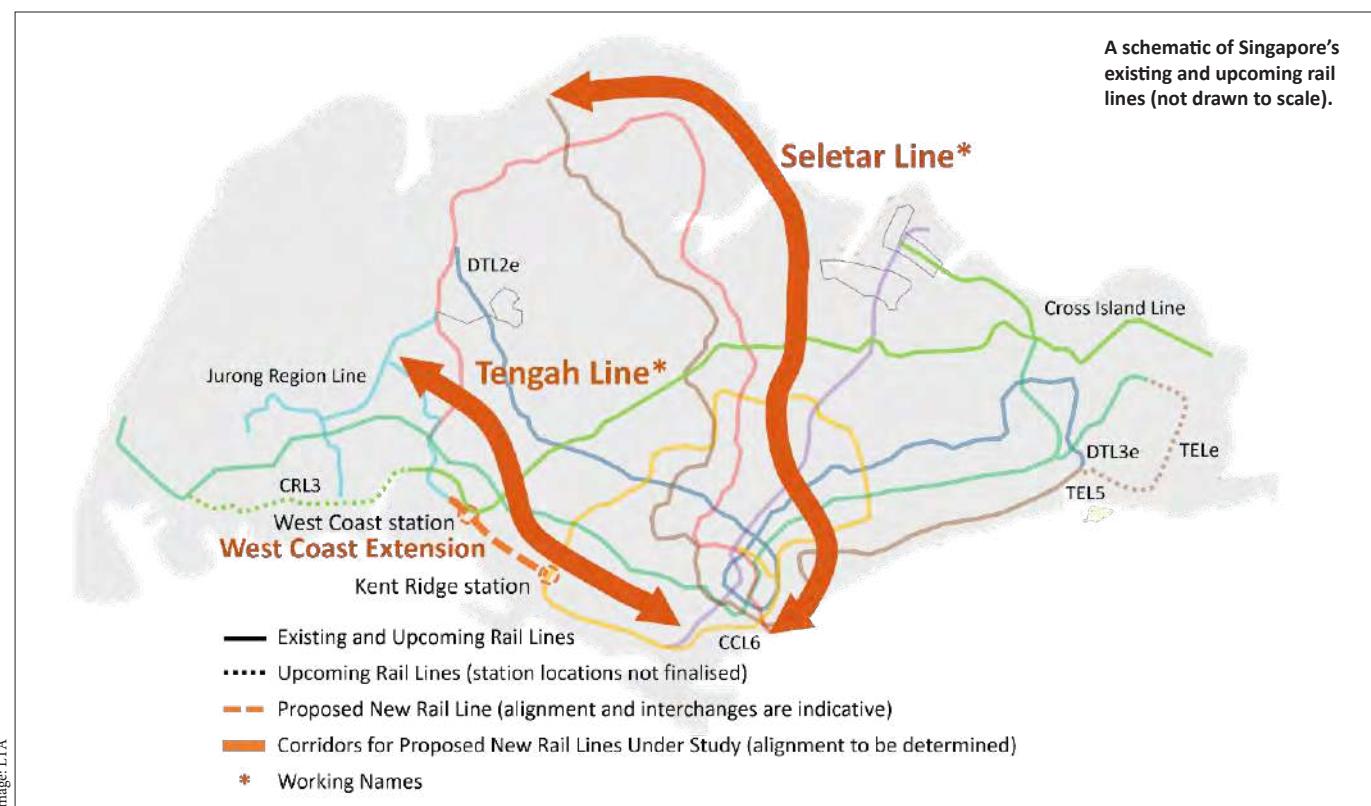
New rail lines

In the Land Transport Master Plan 2040, the government had identified a proposed new line for feasibility studies. Tentatively called the Seletar Line, it could serve areas such as Woodlands, Sembawang, Sengkang West, Serangoon North, Whampoa, Kallang and the Greater Southern Waterfront. Feasibility studies are currently ongoing.

The government has also identified another corridor with potential for a new rail line, tentatively called the Tengah Line. Feasibility studies are ongoing to assess how such a line could supplement the transport network in the west and northwest regions to serve areas such as Tengah, Bukit Batok, Queensway and Bukit Merah.

In addition, the government has preliminarily assessed that these two potential rail lines could meet at the Greater Southern

A schematic of Singapore's existing and upcoming rail lines (not drawn to scale).



As part of Singapore's long-term vision under the Land Transport Master Plan, eight in 10 households will be within a 10-minute walk from a train station by the 2030s.



Waterfront. LTA's feasibility studies will therefore take into consideration the possibility of linking both lines into a single line. If studies confirm that these lines are feasible, they are expected to be completed in phases from the 2040s. The lines are estimated to serve more than 400,000 households.

Strengthening rail reliability

"As we plan ahead to expand our rail network, we want to ensure that the rail network remains safe, reliable and resilient. Through strong tripartite efforts, we have consistently achieved our target of at least 1 million mean kilometres between failure (MKBF) for our rail network since 2019. However, maintaining high reliability standards will become more challenging as our network expands and we have to maintain both newer and older systems and assets," explained MOT.

To support tripartite efforts to strengthen rail reliability, the government intends to invest up to an additional S\$1 billion over the next five years to enhance the management of rail assets and improve the capabilities of the rail workforce.

"We will strengthen the management of rail operating assets by investing in condition monitoring capabilities that allow for more proactive and targeted maintenance. This will complement investments to carry out targeted pre-emptive replacements of subsystems and components to better sustain our assets. We will also invest in new technologies that enhance maintenance efficiency and effectiveness across the sector," said MOT.

"We will also invest in transforming and levelling up the rail workforce, who play a crucial role in the maintenance and smooth operations of the MRT system. We will strengthen training programmes and provide more opportunities for rail workers to upgrade their skills, while supporting public transport operators as they drive workforce and operations transformation to be more future-ready. We will also create more opportunities for our rail workforce and leaders to learn from the best overseas metro systems and international experts." ■



Image: Shawn/Unsplash

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IPAF releases new MEWP Operator Training Course

The new IPAF MEWP Operator Training Course is designed to equip operators with the essential skills and knowledge to operate mobile elevating work platforms (MEWPs) safely and effectively. The course remains globally recognised, with successful candidates earning the IPAF Powered Access Licence (PAL) Card, which is valid for up to five years.

This course is ideal for individuals who need to operate a MEWP in one or more designated machine categories, as well as supervisors or rescuers of MEWP operators. No prior MEWP experience is necessary, making it suitable for beginners and a wide range of candidates.

Course content and objectives

The course provides essential knowledge and practical skills to:

- Apply relevant health and safety regulations
- Recognise accident prevention and control measures
- Identify personal protection requirements
- Know how to reference the MEWP operating manual
- Safely drive, manoeuvre and position a MEWP to perform required tasks

Participants complete a structured, modular programme that includes:

Theory modules:

- Introduction to course objectives, facilities, health and fitness requirements, and the ePAL app
- Overview of legislation requiring operator training
- Identification and description of MEWP types and components
- Pre-use inspections, safety checks and emergency procedures

The new course also features the latest animation and graphics, depicting more detailed real-life scenarios and worksites. A wider range of commonly used machines is showcased, creating a more realistic and engaging experience for candidates.

Configurable modules:

Candidates select detailed, category-specific modules tailored to the MEWP categories they wish to operate (e.g. 1A, 1B, 3A, 3B), covering hazard identification, machine setup and typical applications.

Safe operations module:

Task planning, machine selection, PPE checks, harness use, rescue planning and exercises focusing on six key risk areas—falls, electrocution, overturns, entrapment, collisions and machine failure.

Practical training:

Hands-on experience includes:

- Conducting site risk assessments
- Performing pre-use checks and inspections
- Operating, manoeuvring and positioning MEWPs safely
- Completing real-world tasks using MEWPs

Course duration and qualification

The course duration varies depending on the candidate's experience and machine categories selected:

- Typical completion time: 1–3 days
- Common combinations (e.g. 3A & 3B) may be completed in a single day
- eLearning modules: approximately 3 hours, allowing for flexible, self-paced learning

Successful candidates receive a digital PAL Card via the IPAF



ePAL app. This widely recognised qualification is often required by employers in construction and other industries and is valid for up to five years.

Paul Roddis, IPAF training manager who oversaw the development of the new course, said, "This new operator theory training is a complete game changer, representing the culmination of three years of collaboration with IPAF members from around the globe. It's the first course of its kind to seamlessly integrate behavioural and learning science into the training itself."

"The course is visually stunning and highly interactive, whether delivered via eLearning or in a classroom setting. It engages learners in diverse ways as the training progresses, creating a unique and effective learning experience. Candidates have never experienced training like this before, and I'm confident it will not only be enjoyable but also go further than ever to reduce the risk of accidents and improve the efficiency of MEWP operation."

The development process for this course involved extensive research and collaboration with global experts, including IPAF's international member committees and a dedicated working group. After years of work, the course content has been finalised and rigorously tested to ensure its effectiveness.

Peter Douglas, IPAF CEO and MD, added, "We are delighted to announce the release of the new IPAF MEWP Operator Training Course. A lot of time, work and dedication has gone into transforming and improving the course, and we're confident it will better equip operators around the world with the essential skills and knowledge they need to work safely and effectively. IPAF remains committed to continuously improving and tailoring the wide variety of training courses we offer."

"All eligible IPAF approved training centres have been informed, and I encourage instructors to reach out if they have any questions. Our IPAF team is more than happy to assist!" ■

Website: www.ipaf.org/mewp-operator-training



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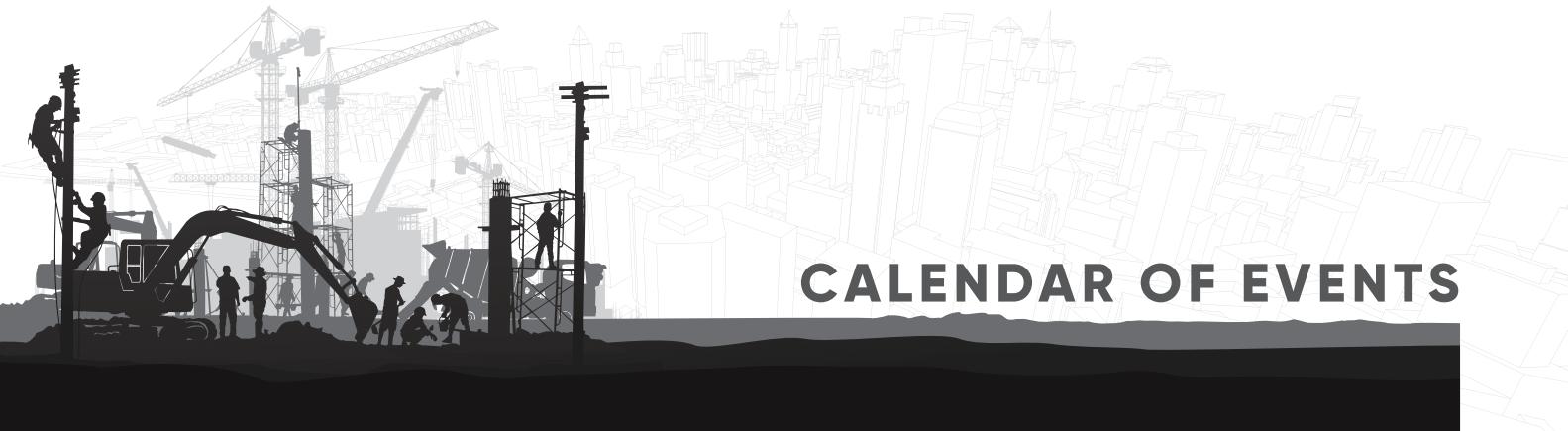
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// Events in Asia

Digital Construction Asia & Geo Connect Asia

9 to 10 Apr 2025

Sands Expo and Convention Centre

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Website: www.geoconnectasia.com

IFAWPCA Convention

9 to 10 Apr 2025

Sands Expo and Convention Centre

Singapore

Website: ifawpca2025.scal.com.sg

Trenchless Asia

7 to 8 May 2025

Kuala Lumpur Convention Centre

Kuala Lumpur, Malaysia

Website: www.trenchlessasia.com

BEX Asia

3 to 5 Sept 2025

Sands Expo and Convention Centre

Singapore

Website: www.bex-asia.com

BCT Expo (Building Construction Technology Expo)

3 to 5 Sept 2025

Impact Exhibition and Convention Centre

Bangkok, Thailand

Website: www.bct-construction.com

Construction Indonesia

10 to 13 Sept 2025

Jakarta International Expo

Jakarta, Indonesia

Website: www.constructionindo.com

BICES

23 to 26 Sept 2025

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Website: www.e-bices.org

CBA Expo (ConsBuild Asia)

24 to 26 Sept 2025

Bangkok International Trade and Exhibition

Centre

Bangkok, Thailand

Website: www.consbuildasia.com

Concrete Expo Asia

24 to 26 Sept 2025

Bangkok International Trade and Exhibition

Centre

Bangkok, Thailand

Website: www.concrete-expoasia.com

Philconstruct

6 to 9 Nov 2025

SMX Convention Centre Manila &

World Trade Centre Metro Manila

Metro Manila, The Philippines

Website: www.philconstructevents.com

AI-Ready Data Centers APAC

3 Dec 2025

Manila, The Philippines

Website: www.arcmediaglobal.com/datacenters

// Events outside Asia

bauma

7 to 13 Apr 2025

Munich Trade Fair Centre

Munich, Germany

Website: www.bauma.de

World of Concrete

20 to 22 Jan 2026

Las Vegas Convention Centre

Las Vegas, USA

Website: www.worldofconcrete.com

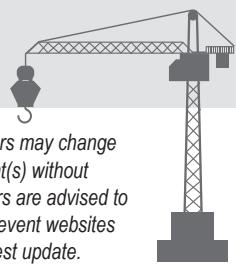
Conexpo-Con/Agg

3 to 7 Mar 2026

Las Vegas Convention Centre

Las Vegas, USA

Website: www.conexpoconagg.com



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Global concrete industry gathers at WOC 2025

World of Concrete (WOC), the annual event dedicated to the global concrete construction and masonry industries, kicked off 2025 with a gathering of 57,908 registered professionals at the Las Vegas Convention Centre in the US.

Held on 21-23 January 2025, the event drew a total of 1,522 exhibitors featuring heavy machinery, tools, products and services for material handling, concrete reinforcement, concrete masonry, cement production and decorative concrete for all types of building, repair, demolition and reconstruction.

More than 180 educational sessions were available at WOC 2025, supplying contractors, builders and companies with the skills to bring operations to the next level through business strategy and project management. Experts also shared insights into current industry topics such as changes in regulations, geological conditions, workforce trends and growth opportunities throughout the sector.

"This event sets the standard for excellence in construction, both excelling in size, attendance and engagement as well as the ability to deliver highly relevant and tailored content to our various audience types. It provides actionable insights and tangible takeaways that attendees can take into the real world, empowering them to thrive in their roles and stay ahead as the knowledge gained at WOC is applied in the day-to-day work," explained Jackie James, vice president of World of Concrete.

"Our mission is to equip our community with the knowledge and skills to navigate new opportunities, challenges and changes in this rapidly evolving industry while preparing current leaders to recruit and nurture the next generation of talent," she added.

Special events at WOC 2025 had concrete and masonry masters go head-to-head to compete for championship titles, including the Spec Mix Bricklayer 500 World Championship, assembling 27 masons from around the world competing for the title of 'World's Best Bricklayer' along with US\$125,000 in cash and prizes – comprising a new 4x4 Chevrolet truck, a Kubota RTV-X1130 utility vehicle, and an Essick Pro12 mixer. Mason Cole Stamper and tender Forest Stamper, brothers from Kentucky, took home the grand prize, with Darian Douthit crowned as Top Craftsman.

To support skill development of the next generation of builders, the Mason Contractor's Association of America hosted the Masonry Skills Challenge, consisting of first, second- and third-year apprentices showcasing their expertise in a surprise project without any preparation or assistance.

"DY Concrete Pumps is celebrating 10 years [in business], and we've had our best show yet. This is our 10th year at World of Concrete as well – we love this show. If you're in the concrete business, this is where you have to be. Anybody and everybody that is in the [concrete industry] is here... traffic is always amazing, but this year is more than we could have ever expected," said Braden Huggins, DY Concrete Pumps Inc.

Other exhibitors included Bobcat, DeWalt, Ford Pro, Hilti, Blaklader Workwear, Kubota and Milwaukee Tool, to name a few. Technology-forward solutions were also at the forefront, with Lucid Bots, Ripik AI, Procore and Dusty Robotics among the exhibitors showcasing how construction is leveraging future-facing technologies to increase efficiency, demonstrating applications of robotics, automation, artificial intelligence and clean energy poised to revolutionise safety, performance and speed.

In addition, some exhibitors at WOC celebrated their milestone anniversaries, such as Mack Trucks commemorating 125 years



ALL IMAGES: World of Concrete 2025 drew a total of 57,908 registered professionals and 1,522 exhibitors. The event was held at the Las Vegas Convention Centre on 21-23 January.

in business and Caterpillar recognising 100 years serving the construction industry. Special celebrations on site honoured the establishment of leading voices in the industry.

The Construction Industry Management (CIM) Auction staged live and silent auctions, raising a record-breaking collective US\$2.15 million for the CIM initiative, a business-intensive programme that awards students with a four-year Bachelor of Science degree in Concrete Industry Management at five public universities: California State University, Chico; Middle Tennessee State University; New Jersey Institute of Technology; Texas State University; and South Dakota State University.

The silent auction took place prior to the live auction. Items at both auctions comprised cement, fly ash, aggregate, concrete saws, drills, safety equipment, training sessions, reference books and software subscriptions, laptop computers, sports travel packages and golf and vacation travel packages, and much more.

WOC is set to return on 20-22 January 2026, with education beginning on 19 January, at the Las Vegas Convention Centre. ■

Website: www.worldofconcrete.com

Geo Connect Asia expands regional footprint

The fifth edition of Geo Connect Asia (GCA) celebrates the mainstreaming of geospatial solutions across government, enterprise and non-profit, with a record number of participants on the show and supporting conferences.

Themed 'Geospatial driven impacts: underground, land and sea to sky', GCA 2025 will be held on 9-10 April at the Sands Expo and Convention Centre in Singapore. The show will be co-located with Digital Construction Asia, Drones & Uncrewed Asia and Marine & Hydro Asia.

GCA 2025 is expected to attract more than 120 companies and 3,000 visitors and delegates. The growing influence of AI, robotics, data interoperability and security across industries will be the main theme of the Geo Autonomy Summit (formerly Geo Connect Asia Conference).

Leading speakers include: Thomson Lai, managing director for digital, AECOM; Will Cavendish, global digital services leader, Arup; Philipp Kandal, CTO, Grab; David Foo, assistant chief executive (operations and ops-tech) / chief data officer, Maritime and Port Authority of Singapore (MPA); and Salote Viti, chairwoman, Pacific GIS & Remote Sensing Council.

Other conferences include the return of Digital Underground Connect and the respective launches of the Digital Construction Asia Forum and APAC Earth Observation Forum. GCA is organised



Geo Connect Asia will be co-located with Digital Construction Asia, Drones & Uncrewed Asia and Marine & Hydro Asia.

by Montgomery Events Asia and supported by the Singapore Land Authority (SLA).

The growing regional impact of the event is reflected by group pavilion support from Indonesia, Sabah (Malaysia), Singapore and Thailand. The organisers are also looking to increase regional attendance beyond 40% of the total, up from 32.5% in 2024. ■

Website: www.geoconnectasia.com / www.digitalconstructionasia.com

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Features:
Construction of new racing circuit in Japan
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Liebherr's eco-friendly machines
Market Talk: Lime, UNIMIX

Sandvik's new electric crushing and screening train

Sandvik Mobile Crushing and Screening has unveiled its new electric tracked crushing and screening train.

The new QH443E is Sandvik's flagship Q-Range electric-driven cone plant. It represents a significant step towards bridging the gap between tracked mobile, wheeled portable and stationary plants by combining electric drives and track mobility on a single platform.

The QH443E features an updated tracked platform with a diesel/electric generator-based drivetrain, Optik automation system, My Fleet remote monitoring and the Sandvik CH440 Hydrocone crusher.

This advanced cone crusher is known for its versatility and ease of setting adjustment through the Hydroset CSS regulation and protection system, which optimises production and keeps track of liner wear through the CLP (Constant Liner Performance) technology. With a choice of several chambers, throws and settings for a wide range of applications, users can fine-tune their specification and improve capacity.

According to Sandvik, running the QH443E via the onboard genset can result in up to 25% fuel savings and a 78% reduction in oil usage compared to previous generations.

Combining electric drive technology with tracked mobility, the QH443E is designed with safety, sustainability and total cost of ownership in mind – making it ideal for secondary or tertiary crushing in aggregate production, quarries and mines.

Electric tracked train

The QH443E electric cone crusher completes Sandvik's electric train, which includes the UJ443E fully electric jaw crusher (launched in 2023) and the QA452e hybrid triple-deck Doublescreen (launched in 2022).

Built on a new fully electric track platform, the Sandvik UJ443E features high-quality components and the latest generation Sandvik CJ412 jaw crusher. It offers up to 25% reduction in fuel consumption and up to 30% increase in throughput compared to previous models. The fully electric track drives also reduce hydraulic oil usage by up to 91%.

The Sandvik QA452e Doublescreen technology typically outperforms traditional screens by up to 30%, offering a tailored rock processing solution for



ABOVE AND LEFT: The new QH443E is Sandvik's flagship Q-Range electric-driven cone plant. The unit is ideal for secondary or tertiary crushing in aggregate production, quarries and mines.

mining, quarry and recycling industries. Its hybrid 'e' drive allows users to choose the most suitable energy source for their task.

Both the UJ443E and QH443E are equipped with an onboard genset and electrically driven components onboard. This setup enables both units to operate either by connecting to an external electricity supply or via the onboard genset using HVO (hydrotreated vegetable oil) or diesel.

Using an external supply or grid connection provides further advantages, including significantly lower running costs, extended drivetrain service intervals, reduced refuelling time, minimal onsite emissions and lower noise levels.

In addition, the alternator is sized accordingly so that a downstream screening plant could be operated from the plant's onboard genset, simplifying servicing and maintenance and improving overall fuel consumption whilst also providing up to 20% decrease in fuel consumption compared to running separate units.

"Sandvik Mobiles has always been at the forefront of innovation, and completing the development of our tracked electric train marks a significant step towards a more sustainable and cost-effective future for the crushing and screening industry," said Manny Maloney, president of Sandvik Mobile Crushing and Screening.

"This is just the beginning of our commitment to developing solutions that improve the productivity, safety and sustainability of our customers' operations. With its advanced capabilities, this technology is also particularly well-suited for heavy-duty applications, including large quarries and mining operations, where maximising uptime and reduced environmental impact are critical."

The UJ443E and QA452e are available for order through Sandvik Mobile's global network of sales areas and distributors. The QH443E will be available in the European market from mid-March and globally later in 2025. ■

Website: www.rockprocessing.sandvik

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Vermeer's new AutoTension feature enhances efficiency on intersect bores

Vermeer is enhancing the capabilities of its D220x500 S3 and D550 horizontal directional drills (HDDs) with the optional AutoTension feature, which is designed to simplify the connection of two drill rigs working on intersect bores.

After completing a pilot bore, a drill outfitted with AutoTension allows HDDs on both sides of the bore to work together to increase the efficiency of reamer passes and the process of adding or removing drill rods to the tail string. When activated, AutoTension maintains a steady tension force on the drill string, helping to streamline large diameter and long-distance bores.

"The HDD industry is witnessing a growing trend of employing a drill rig on each side of a large diameter or long bore," explained Marv Klein, application specialist at Vermeer. "With Vermeer AutoTension on the D220x500 S3 and D550, crews on the entry and exit side of the bore can work together while reaming and swabbing a bore hole.

"This leads to more efficient and accurate reamer passes without the need for a mechanical locking swivel or breakout tongs for rod handling. Also, AutoTension helps optimise fluid management on the job because the need to transport fluids using vacs or pumps from one side to the other is reduced because crews can pull ream and pump fluids from either side."

The AutoTension feature, engaged from the control station, maintains a desired tension on the tail string throughout the drilling process. It allows for temporary disengagement when necessary – such as during rod additions or removals – without halting operations. This flexibility extends to directional changes, enabling the driving machine to switch between pushing and pulling without requiring action from the operator in the other drill.

The AutoTension feature also includes a lack of operator presence safety system. When the AutoTension operator leaves the seat, certain controls are locked out and an audible alert sounds at the AutoTension machine.

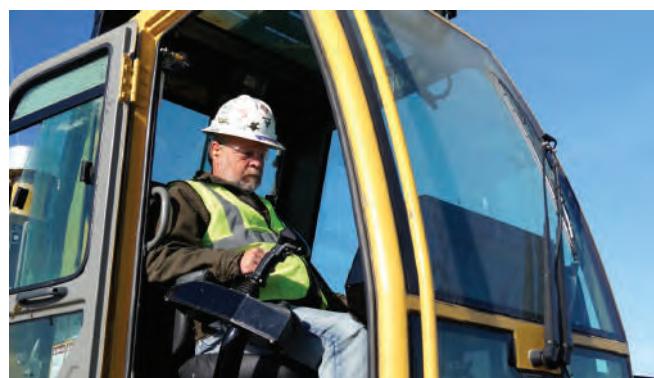
This innovative feature offers several key benefits to HDD crews. It optimises reamer penetration through consistent tension application and improves positioning and control of the reamer within the bore hole.



The use of AutoTension optimises reamer penetration through consistent tension application and improves positioning and control of the reamer within the bore hole.



The AutoTension feature simplifies the connection of two drill rigs working on intersect bores. Engaged from the control station, it allows for temporary disengagement when necessary without halting operations.



The AutoTension feature also helps maintain the intended bore path and reduces potential complications during the drilling process.

Moreover, AutoTension helps maintain the intended bore path and reduces potential complications during the drilling process.

Contractors can match different Vermeer HDDs with the D220x500 S3 or D550 using

AutoTension. Also, people who already own a D220x500 S3 or D550 can add this feature to their units. An authorised Vermeer dealer will need to help execute these upgrades. ■

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Sea sponge inspires super strong compressible material

Inspired by the humble deep-sea sponge, Australia's RMIT University engineers have developed a new material with remarkable compressive strength and stiffness that could improve architectural and product designs.

The double lattice design was inspired by the intricate skeleton of a deep-sea sponge known as Venus' flower basket, which lives in the Pacific Ocean.

Lead author of the latest RMIT study into the structure, Dr Jiaming Ma, said extensive testing and optimisation revealed the pattern's impressive combination of stiffness and strength, mixed with an ability to contract when compressed.

It's this last aspect – known as auxetic behaviour – that opens a whole range of possibilities to apply the design across structural engineering and other applications.

"While most materials get thinner when stretched or fatter when squashed, like rubber, auxetics do the opposite," said Dr Ma. "Auxetics can absorb and distribute impact energy effectively, making them extremely useful."

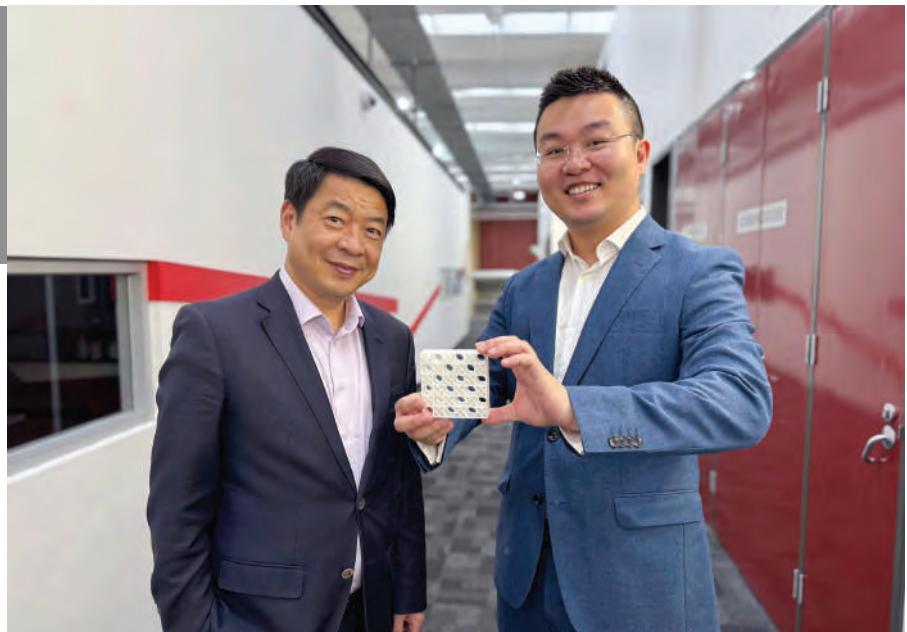
Natural auxetic materials include tendons and cat skin, while synthetic ones are used to make heart and vascular stents that expand and contract as required.

But while auxetic materials have useful properties, their low stiffness and limited energy absorption capacity limits their applications. The team's nature-inspired double lattice design is significant because it overcomes these main drawbacks.

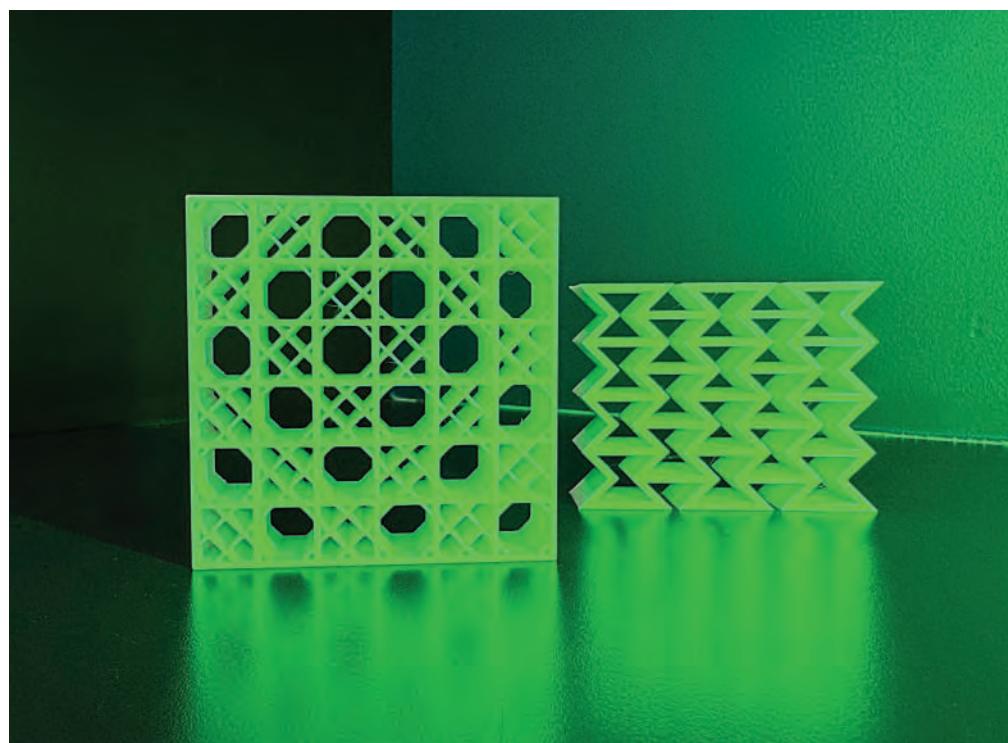
"Each lattice on its own has traditional deformation behaviour, but if you combine them as nature does in the deep-sea sponge, then it regulates itself and holds its form and outperforms similar materials by quite a significant margin," said Dr Ma.

Potential applications

Results published in 'Composite Structures' show with the same amount of material usage, the lattice is 13 times stiffer than existing auxetic materials, which are based



Honorary Professor Mike Xie (left) and Dr Jiaming Ma show a 3D-printed model of the team's double lattice design. This new material with high stiffness and energy absorption could offer significant benefits across multiple sectors, including construction materials.



The team's double lattice structure (left) outperforms the standard re-entrant honeycomb design (right). This double lattice design was inspired by the intricate skeleton of a deep-sea sponge known as Venus' flower basket, which lives in the Pacific Ocean.

on re-entrant honeycomb designs. It can also absorb 10% more energy while maintaining its auxetic behaviour with a 60% greater strain range compared to existing designs.

Dr Ngoc San Ha said the unique combination of these properties opened several exciting applications for their new material. "This bioinspired auxetic lattice provides the most solid foundation yet for us to develop next generation sustainable building," he said.

"Our auxetic metamaterial with high stiffness and energy absorption could offer significant benefits across multiple sectors, from construction materials to protective equipment and sports gear or medical applications."

The bioinspired lattice structure could work as a steel building frame, for example, allowing less steel and concrete to be used to achieve similar results as a traditional frame.

The structure could also form the basis of lightweight sports protective equipment, bullet proof vests or medical implants.

Honorary Professor Mike Xie said the project highlighted the value in taking inspiration from nature. "Not only does biomimicry create beautiful and elegant designs like this one, but it also creates smart designs that have been optimised through millions of years of evolution that we can learn from."

Next steps

The team at RMIT's Centre for Innovative Structures and Materials has tested the design using computer simulations and lab testing on a 3D printed sample made from thermoplastic polyurethane.

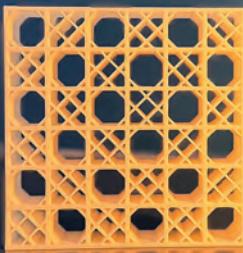
They now plan to produce steel versions of the design to use along with concrete and rammed earth structures – a construction technique using compacted natural raw materials.

"While this design could have promising applications in sports equipment, PPE and medical applications, our main focus is on the building and construction aspect," said Dr Ma.

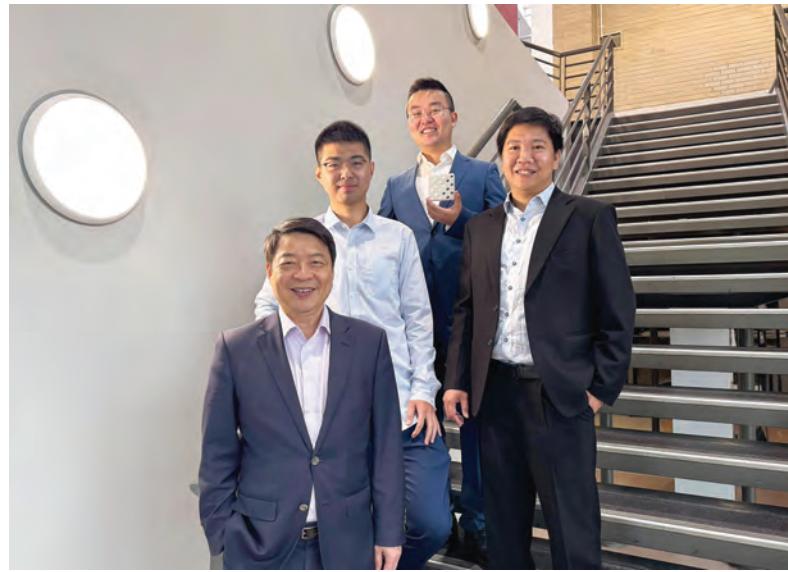
"We're developing a more sustainable building material by using our design's unique combination of outstanding auxeticity, stiffness and energy absorption to reduce steel and cement usage in construction.

"Its auxetic and energy-absorbing features could also help dampen vibrations during earthquakes."

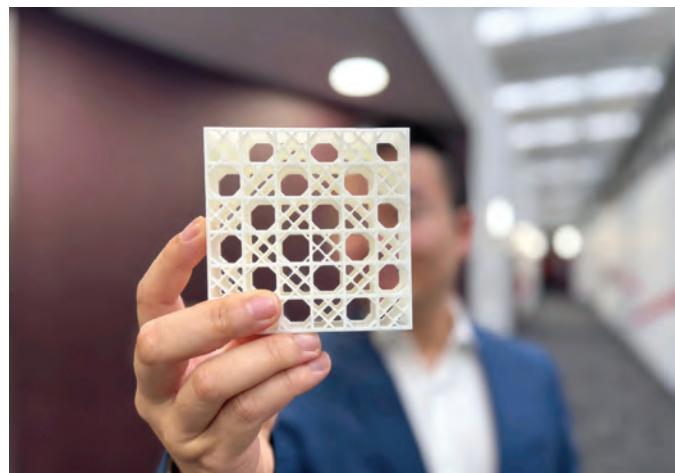
The team is also planning to integrate this design with machine learning algorithms for further optimisation and to create programmable materials. ■



The team now plans to produce steel versions of the design to use along with concrete and rammed earth structures – a construction technique using compacted natural raw materials.



The Centre for Innovative Structures and Materials team behind the study. From left: Honorary Professor Mike Xie, Dr Hongru Zhang, Dr Jiaming Ma and Dr Ngoc San Ha.



"We're developing a more sustainable building material by using our design's unique combination of outstanding auxeticity, stiffness and energy absorption to reduce steel and cement usage in construction," said Dr Jiaming Ma.

While this design could have promising applications in sports equipment, PPE and medical applications, our main focus is on the building and construction aspect.

Note: 'Auxetic behavior and energy absorption characteristics of a lattice structure inspired by deep-sea sponge' is published in Composite Structures.

All images: RMIT University

Digging all the way to Southeast Asia

Volvo Construction Equipment (Volvo CE) has unveiled its New Generation excavators, setting a new benchmark in the industry. The flagship model in this range, the EC210, a 20-t class excavator, was recently launched in the Southeast Asian region.

Singapore hosted the first launch on 17 January 2025, followed by Thailand on 22 January and Indonesia on 26 February. The New Generation EC210, which meets Tier 3 emission standards, will be progressively introduced to all Southeast Asian markets within this year, said Ramarajan Rangarajan, head of productivity and retail development for Region Asia at Volvo CE.

"The Singapore government has been focusing on productivity and efficiency improvements, and this enables technology to flow into the country. This is one of the reasons why Singapore is a strategic market for us, making it ideal as the first location in Southeast Asia to launch our new machines," explained Mr Rangarajan during an interview with SEAC.

"Besides having a greater ability to adopt technology, customers in Singapore are also very diverse in terms of applications," he added.

In Thailand, the New Generation EC210 excavator was launched at a customer event in Bangkok, held in collaboration with Volvo CE's newly appointed authorised dealer for the country, Chairatchakarn (Bangkok) Co Ltd (CHAB). In Indonesia, the grand launch event took place in Jakarta, in collaboration with Volvo CE's local dealer PT Indotruck Utama (ITU).

Several units of New Generation EC210 have been sold in Singapore, Thailand and Indonesia so far, with further sales expected as the model makes its debut in more markets. "There's huge interest in our New Generation excavators across Southeast Asia due to its improved performance and higher fuel efficiency," said Mr Rangarajan.

The flagship model in this New Generation series, the EC210, a 20-t class excavator, was recently launched in the Southeast Asian region.



TOP AND ABOVE: Ramarajan Rangarajan, head of productivity and retail development for Region Asia at Volvo CE, shared with SEAC why these New Generation excavators are different from the previous models in the D-series.

He noted that over the past few months, "we have seen increasing interest in our sustainable products, including diesel-powered machines, as many organisations in the region gear up for a change and move towards a greener working environment."

The unveiling of the New Generation excavators aligns with Volvo CE's 'Our EDGE to Success' framework in its Region Asia, emphasising the company's commitment to delivering customer success through competitive products, excellent services and a dependable distribution network.

Higher productivity and efficiency

According to Mr Rangarajan, Volvo CE's earlier series – the D series – will be phased out. "The New Generation excavators are completely different with improved features, and will replace the previous models in the D-series."

"Our customers focus on a number of critical requirements: performance (how powerful and efficient the machines are), fuel economy, serviceability (how quickly we can service the machines), operator comfort, and safety. The New Generation excavators will deliver each of these requirements," shared Mr Rangarajan. "There are also additional performance enablers which can be offered to the customers, such as machine guidance that can enhance productivity."



Volvo CE's New Generation excavators deliver up to 15% fuel economy improvement and lower operating costs.



LEFT AND RIGHT: Singapore hosted the first launch of the New Generation EC210 in Southeast Asia, with a customer event on 17 January 2025.



In Thailand, the New Generation EC210 was launched at a customer event in Bangkok, held in collaboration with Volvo CE's newly appointed authorised dealer for the country, Chairatchakarn (Bangkok) Co Ltd (CHAB).

The New Generation EC210 is engineered to handle the most demanding jobs while delivering exceptional return on investment (ROI). This machine is versatile, combining robust performance with innovative technology, thus setting a new benchmark for productivity and efficiency.

The Volvo engine provides higher power and torque to maximise performance. There are 10 work modes for effective use of engine power in various segments and applications. This powerful engine and matched hydraulics with faster cycle times boost customers' productivity as never before on a New Generation EC210.

The new EC210 also offers greater onsite safety for operators with three-point side access, emergency shutdown, rear-view camera and anti-slip plates. Operator comfort is ensured with more precise controls, ROPS cab, an ergonomically designed human-machine interface and an enhanced operator environment.

"We didn't use ROPS cab in the earlier series, so our New Generation excavators provide better comfort and safety for the operators," said Mr Rangarajan.

The improved powertrain including the hydraulics in the New Generation excavators reduces fuel consumption dramatically. It is done by regulating engine speed and hydraulic flow rate based on the task at hand, resulting in up to 15% fuel economy improvement and lower operating costs.

In addition, the New Generation excavators feature easy service access and longer service intervals to drive down maintenance costs and increase machine availability. A fuel shut-off valve also facilitates fuel filter changes, avoiding fuel spillage and further reducing costs.

Optional functions like Dig Assist and Volvo attachments such as hydraulic breakers help elevate jobsite efficiency, versatility and flexibility.

Mr Rangarajan mentioned that HVO (hydrotreated vegetable oil) fuel can be used for the New Generation excavators if required, depending on the availability of the suppliers. This will allow the machines to further reduce their carbon emissions.

Although cost remains an issue in Asia when it comes to HVO fuel, Mr Rangarajan said customer engagements around this option have already begun, such as in Japan. "We have also used biofuel in some Southeast Asian countries, like Malaysia, Thailand and Indonesia," he added.



TOP, ABOVE AND BELOW: With the appointment of CHAB and the introduction of the New Generation EC210, Volvo CE is poised to drive growth and strengthen its position in the Thai market.



Volvo CE offers both electric and diesel machines in Southeast Asia. "Our commitment to reach net-zero emissions by 2040 continues," stressed Mr Rangarajan, "but at the same time, we understand that the ecosystem of the charging infrastructure varies from market to market as they are in different stages of maturity."

"What we are doing now is developing new diesel machines with much higher efficiency, so that when the ecosystem is ready, we can easily switch to more sustainable power sources, be it battery packs, hydrogen engines, or any other sustainable power source, while still using the same powertrain solutions."

LEFT: The New Generation excavators feature easy service access and longer service intervals to reduce maintenance costs and increase machine availability.



ABOVE, BELOW AND BELOW RIGHT: The New Generation EC210 excavator was officially introduced to the Indonesian market on 26 February 2025. The grand launch event took place in Jakarta, in collaboration with Volvo CE's local dealer PT Indotruck Utama (ITU).



'Our EDGE to Success'

The 'Our EDGE to Success' concept was first introduced during the Region Asia dealer conference in September 2024 to underscore the importance of collaboration between Volvo CE, its dealers and customers, fostering a competitive advantage for all parties.

The concept also summarises the key enablers – products, services and distribution – to drive a positive brand experience for customers. EDGE is a short for:

- Distribution – Engaged and satisfied customer, Dependable distribution/people, Growth mindset, and Exclusive brand experience.
- Product – Enhanced efficiency, Durability and safety, Greater fuel savings, and Easy to own and maintain.
- Services – Excellence in execution, Digitisation for proactive support, Gain in productivity and uptime, and Enable lower total cost of ownership (TCO).

Apart from the EC210, other New Generation excavators include the EC220, EC230, EC300 and EC360, all of which are available to Southeast Asian markets.

"Our New Generation excavators give our customers the EDGE to stay ahead in an ever-evolving market," said Mr Rangarajan. ■

Website: www.volvoce.com/asia/en-as/products/excavators/ec210/



Several units of New Generation EC210 have been sold in Singapore, Thailand and Indonesia so far, with further sales expected as the model makes its debut in more markets.

Infrastructure projects in Asia can benefit from gen AI-powered digital tools: Bentley

Bentley Systems recently unveiled its new engineering application with generative AI capabilities for civil site design. Known as OpenSite+, it can accelerate drawing production by up to 10 times compared to traditional methods.

Kaushik Chakraborty, senior vice president of Asia Pacific at Bentley, talked to SEAC about the potential of this new application in the Asian market and shared some of the current shifts he's seen shaping the region.

Gen AI in action

OpenSite+ is Bentley's first engineering application leveraging generative AI (gen AI) capabilities for civil site design. It helps engineers swiftly design residential, commercial and industrial sites with AI tools, significantly boosting productivity and accuracy. This new software features a design co-pilot, site layout optimisations, automated drawing production and smart design tools.

At the 2024 Year in Infrastructure (YII) event in Canada, held in early October, Bentley announced the availability of OpenSite+ early access programme to engineering and construction firms in North America. According to Mr Chakraborty, the application will also be offered to other markets, including Asia, which is expected to start from this year.

With OpenSite+, Bentley is automating repetitive tasks, such as drawing production. "We're not replacing engineers' skills," stressed Mr Chakraborty, "but rather we're using AI as a tool to help engineers automate manual tasks, so that they can focus on higher-value activities and improve their productivity."

A digital twin-native product, OpenSite+ has been built with Bentley's iTwin platform to deliver AI-powered efficiencies and better-quality designs. Bentley said users of OpenSite+ can maintain control over their proprietary data during AI training, which creates a solid foundation to responsibly guide the development of AI models.

Increasing efficiency and transparency

With the rising demand for infrastructure – and better infrastructure – in Asia, due to rapid urbanisation and higher standard of living, advanced digital technologies like OpenSite+ can play a major role, explained Mr Chakraborty.

"There's more pressure on governments to deliver projects faster, better and within the budget. A common challenge in construction projects is usually cost overruns, especially in large-scale projects.

"This is where technology comes in. As an engineering software company, we explored how we can use digital tools such as gen AI to help build projects more efficiently and economically without



Image: Bentley Systems

Kaushik Chakraborty, SVP of Asia Pacific at Bentley Systems, spoke with SEAC about growth opportunities in Asia and how OpenSite+ can benefit infrastructure projects in the region.

compromising on their quality.

"If we can deliver the design up to 10 times faster, or even just five times, we can reduce the construction time significantly, which means higher cost-savings for the projects."

Technology also promotes more transparency among stakeholders, added Mr Chakraborty. "It allows them to find out the actual status of the project in the lifecycle, enhancing the project's credibility."

Mr Chakraborty mentioned that there is growing interest in greater transparency from organisations that provide project financing. "They want to know whether their investment is secure – is the project resilient, is it going to be sustainable, or does it have good-quality design?"

"So I think technology like AI can benefit those organisations and other decision makers by creating more awareness of their funded projects: what are they actually investing in, and what are their ROI going to be?"

The changing construction landscape in Asia

Mr Chakraborty further highlighted the importance of Asian market for Bentley. "It is one of our fast-growing and key markets, with a lot of opportunities in infrastructure development."

This is also evident with a large number of finalists from Asia at the company's Going Digital Awards events over the past few years. In 2024 alone, projects in Asia made up half of the 36 finalists.

"The region is building all types of infrastructure – highways, roads, bridges, railways, water, housing, and many more," said Mr Chakraborty. "We're creating new infrastructure, not just rebuilding existing infrastructure as in developed countries."

Mr Chakraborty emphasised that infrastructure development is not only vital but also "drives economic value for nations. Take the high-speed rail (HSR) between Jakarta and Bandung in Indonesia, for example. Look at how much value it adds to the economy of both cities as the rail system connects people, goods and services more quickly."

The Jakarta-Bandung HSR project won a 2022 Going Digital Award. Opened to the public in 2023, it significantly reduces the travel time between the two cities from three hours to less than an hour. During construction, the contractor employed digital solutions which helped save US\$185 million in construction costs and shorten the construction schedule by six months.

Another example is the NLEX-SLEX Connector Road in the Philippines, which won a 2024 Going Digital Award. The use of digital solutions in this project increased productivity by 15% and boosted equipment logistics by 40%. The new road improves transportation of goods and reduces travel time by more than one hour, saving about 315 mil kg of equivalent carbon emissions per year.

With sustainability targets already set by many countries in Asia, digital adoption is expected to increase to support the environmental efforts of these countries. Mr Chakraborty reiterated Bentley's view on sustainability, which goes beyond technological innovations: "It is about balancing economic, environment and social outcomes across the entire project for all stakeholders," as Chris Bradshaw, the company's chief



Image: Bentley Systems

Francois Valois, vice president of civil engineering at Bentley Systems, introduced OpenSite+ at the YII 2024 event in Vancouver, Canada.

sustainability officer put it during the YII 2024 event.

Mr Chakraborty also noted a shift in management cycle across Asia, with a younger generation coming onboard. "They bring new ideas and have different business perspectives. As projects become larger in scale and labour costs are rising, the younger generation is more willing to invest in technology to overcome the challenges."

In addition, there is a long-term commitment to funding infrastructure projects by governments in the region, pointed out Mr Chakraborty. "This is very encouraging, as it will drive the adoption of new technologies, generate more jobs and provide better quality of life for the people."

Last but not least, an exceptional project can further push digital transformation forward. "The development of IKN [Ibu Kota Negara, Indonesia's new capital city] is a great example of this," said Mr Chakraborty. "The scale of the project is so big that it would be extremely difficult to deliver with traditional methods."

Looking ahead, given the progress of infrastructure development in the region, how can Bentley continue to empower project teams through the use of innovative technologies? Mr Chakraborty affirmed that the company is "making the adoption simpler and offering products that are easier to use and much more cost-effective, especially for emerging markets." ■

Website: www.bentley.com/software/opensite-plus



Image: Department of Public Works and Highways

We're using AI as a tool to help engineers automate manual tasks, so that they can focus on higher-value activities and improve their productivity.

Mr Chakraborty emphasised the critical role of infrastructure development, such as this NLEX-SLEX Connector Road in the Philippines (left), which won a 2024 Going Digital Award.



bauma 2025

ADVANCING DIGITALISATION AND SUSTAINABILITY

bauma, the world's largest trade show for construction machinery, building material machines, mining machines, construction vehicles and equipment, will return to Munich, Germany from 7 to 13 April 2025. The event will feature more than 3,500 exhibitors from 57 countries, covering a total of 614,000 sq m of exhibition space.

Digitalisation and sustainability will be the key topic of bauma 2025, focusing on five areas: climate neutrality, alternative drive concepts, networked construction, sustainable construction and mining challenge

According to the organiser, Messe München, there is an increase in international participation, primarily from Asia – especially India, Japan, China, Taiwan and Korea. Europe also has a strong presence, with Italy being the second largest exhibitor group after Germany, while Turkey the fourth largest. In addition, the number of exhibitors from Switzerland, Belgium, the Netherlands and Portugal has grown. And for the first time,



TOP AND ABOVE: This year's bauma will feature more than 3,500 exhibitors from 57 countries. There is an increase in international participation, primarily from Asia.

companies from Argentina and the Philippines will be taking part in bauma.

"The persistently high level of interest in bauma underscores its global significance. bauma is and remains the heartbeat of the industry and will continue to provide important impetus even in the challenging market environment of 2025," said Stefan Rummel, CEO of Messe München.

bauma Innovation Award 2025

This is the 14th time that Messe München and VDMA, together with the construction industry associations HDB, ZDB and bbs, will award the prize. The competition started on 2 May 2024, with five categories: Climate Protection, Digitalisation, Mechanical Engineering, Building and Research.

All nominees will be presented at the ICM in Munich on the eve of the opening of bauma on 6 April, and the five innovations with the highest number of votes will receive the award.

The jury evaluates the entries according to criteria that are crucial for the future of the industry. Key factors include the practical relevance of a solution and its economic potential. The judges also consider the progress of digitalisation, environmental aspects, sustainability, resource efficiency and the humanisation of the workplace.

The following entries have been nominated for the award in 2025:

Category 1: Climate Protection

- Local zero-emission construction site, Wirtgen Group
- Roto ProCarbonCure, Robert Thomas GmbH & Co KG
- H2 excavator with fuel cell drive, Hyundai Construction Equipment Europe

Category 2: Digitalisation

- Wolff high-speed positioning system, Wolffkran GmbH
- Smart Automation in Roadbuilding, Wirtgen Group
- Liebherr Autonomous Operations, Liebherr-Werk Bischofshofen GmbH

Category 3: Mechanical Engineering

- Positioning Pilot assistance system, Liebherr-Werk Biberach GmbH
- Tunnel Enlargement System, Herrenknecht AG
- S1 Vision – Liebherr Single-Axle Truck, Liebherr Corporate Ventures AG

Category 4: Building

- Dive-Drill Method, Bauer Spezialtiefbau GmbH
- New composite bridge construction method, Adam Hörnig Baugesellschaft mbH & Co KG
- Site Depot material flow management software, N1 Circular GmbH

Category 5: Research

- ExtendedExcavatorHMI, Technische Universität Dresden
- MAXX - Mobile Assembly X System, Center Construction Robotics (RWTH)
- Muck measuring system for EPB tunnel boring machines based on AI (MEGA), Technische Hochschule Köln

The international bauma Innovation Award has its roots in the German Construction Equipment Day, which until 2004 honoured cutting-edge technologies from Germany. Since 2007, it has been awarded every three years in this form and is organised jointly by VDMA, VDMA Services GmbH, bauma and the German construction industry's central associations, HDB, ZDB and bbs. The VDMA is responsible for the organisation. ■

Website: www.bauma.de / www.bauma-innovationspreis.de



TOP, ABOVE
AND LEFT:
Digitalisation and
sustainability will
be the key topic
of bauma 2025.

BELOW:
The winners
of bauma
Innovation
Award 2025 will
be announced on
6 April.



Image: Holger Rauner, Munich

Note: More products will be featured on our website (seac.tradelinkmedia.biz).

All images: Messe München (unless stated otherwise)

VOLVO CE TO DISPLAY ALL-ELECTRIC LINEUP

Volvo Construction Equipment (Volvo CE) is set to make history at bauma with the unveiling of its first-ever zero-emission only lineup. This groundbreaking showcase will feature an exclusive all-electric range, which exemplifies the company's dedication to reducing environmental impact while maintaining superior customer performance.

This exclusive range, including recently launched models of excavators and loaders, is designed to meet the diverse needs of the construction industry, offering cutting-edge technology and efficiency. The show will also see the worldwide, never-before-seen launch of a brand-new Volvo zero-emission machine designed for use in key industrial segments in the construction industry.

Besides its zero-emission lineup, Volvo CE will also illustrate that conventional diesel options are available to customers for all zero-emission models on display. These models are engineered to deliver excellent fuel efficiency, with improvements of up to 15%, and exceptional productivity. This multi-technology approach ensures that Volvo CE continues to provide versatile solutions that cater to a wide array of customer requirements, wherever they are in their transformation journey.

The exhibit at bauma represents Volvo CE's most extensive product portfolio overhaul in decades. With over 35% of its range renewed in the past 12 months, the company is setting the stage for the future of construction equipment.

Melker Jernberg, president of Volvo CE, said, "We are at a critical moment in our industry's transformation. With our biggest launch ever, featuring a range of versatile technologies, we are prepared to offer industry-leading products, services and solutions to assist customers at any stage of their transformation journey. We stand firm in our commitments to innovation, sustainability and leadership in the industry."

At the heart of this experience will be a new interactive Solutions Bar, demonstrating Volvo CE's commitment



ABOVE: For the first time at bauma, Volvo CE will showcase its zero-emission only lineup.



LEFT: The upgraded 23-t EC230 Electric mid-size excavator will also be on display.

to being a total solutions provider. It will focus on tailored, data-driven advice and business solutions for customers to unlock new levels of productivity, efficiency and sustainability. Whether it's reducing carbon emissions, maximising capacity, boosting profitability, or achieving all these goals simultaneously, Volvo's experts are there to deliver practical, actionable solutions, through a combination of advanced machines, integrated services and flexible financial offering.

Highlights on display will also include:

- The first look at the upgraded 23-t EC230 Electric mid-size excavator.
- Newly launched electric wheel loaders, the L120 Electric and L90 Electric.

- The new EWR150 Electric – the company's first battery-powered wheeled excavator.
- The EW240 Electric Material Handler grid-connected excavator.
- Exciting developments to be revealed across the compact electric range.
- Versatile charging solutions including the PU40 mobile power unit and an upgraded version of the PU500.
- A look at services and solutions to support customers on the way to zero emissions, including more efficient combustion engines. ■

Booth: C6.303 / FM.HOF 60C.2

MANITOU FOCUSES ON ZERO-EMISSION MACHINES

Manitou Group is working actively on the development of electric and hydrogen-powered machines. After presenting an initial prototype of a fixed telehandler with an 18-m lifting height and 4-t load capacity in December 2022, the group is taking another step forward. At bauma, a second telehandler prototype concept will be unveiled, powered by green hydrogen via a fuel cell, guaranteeing a zero-emission solution.

Another highlight is two electric models of high-lift telehandlers that are entirely zero-emission. These high-performance machines, which comply with Low Emission Zone (LEZ) regulations, offer a full day's working autonomy. They are also designed for operator comfort, with a new cab featuring improved visibility over current models and low noise levels.

In addition, Manitou's new MRT rotating telehandler is designed for high-rise lifts. It features a lifting height of over 30 m and engine power of 175 hp. The machine's benefits include faster positioning and fewer movements, high capacity combined with the ability to work in very tight site conditions, increased mobility on site, reduced crane rental costs and operator expenses, all with a smaller footprint than a traditional crane.

The innovative track loader solution for cable construction during ongoing rail operations will also be on site. This solution represents an optimal alternative to conventional underground cable construction and is faster, more effective and more resource-efficient. These compact loaders emit fewer emissions than traditional machines used for this type of application, which reduces the environmental impact of this activity. There is only minimal interference with the construction section and the need to close off the railroad area can be minimised.

For the industrial sector, Manitou will be showcasing the new ME 430 Lift electric forklift truck powered with lithium-ion batteries, which has a load capacity of up to 3.5 t and, with its zero-emission drive, is particularly suitable for internal transport in closed or emission-sensitive environments.

As for Gehl machines, visitors can find a selection of articulated loaders, skid steer and track loaders. Gehl skid steers are known for their high performance and low maintenance requirements – ideal for demanding applications on construction sites. A large choice of attachments will be presented during the show such as mulchers, graders, cold planers or concrete mixing buckets.

Manitou also strengthens its range of electric charging solutions with a new outboard fast charger (30 kW), designed for maximum efficiency and extended compatibility with the MT range (telehandlers) and ME Lift electric ranges (forklifts). It will meet the requirements of different markets with adapted plugs and specific voltages, with country-specific adapters being validated for maximum compatibility. ■



Manitou will unveil two electric models of high-lift telehandlers.



A variety of Gehl machines will be on site.



Manitou also offers electric charging solutions.

Booth: FS.908/1

CATERPILLAR CELEBRATES 100 YEARS

With the theme 'The Next 100 Years', Caterpillar will showcase a wide range of equipment, technologies, power options and services at bauma. The company's exhibit will cover over 9,000 sq m of space featuring 48 machines, which include 17 new introductions or upgrades. These consist of enhancements to the battery electric line-up, expansions to the Next Generation line-up, and additions to the demolition, waste handling and recycling portfolios.

Cat Performance Centre

The Cat Performance Centre will take centre-stage, showcasing the possibilities when power, machinery, technology and autonomy work together. The display will focus on a range of solutions designed to support its customers be more successful on their respective jobsites, including helping increase performance, streamline efficiencies and achieve their sustainability goals. Visitors will have the chance to simulate how upgrading their fleet with Caterpillar's latest machine technologies can lead to significant reductions in fuel consumption and associated greenhouse gas (GHG) emissions.

Additionally, the Cat Performance Centre will feature the latest 301.9 mini hydraulic excavator and 906 compact wheel loader from the battery electric product offerings, both are available through select Cat dealer rental fleets. The newest updates to the 320 and 950 GC prototypes will also be showcased, along with associated charging options and services. Attendees can experience an electrified jobsite simulation, showing data insights and energy flows that real-world customers are already benefiting from, thanks to Caterpillar's ecosystem of electric innovations.

Technology, connectivity and safety

Experts are on hand to demonstrate advancements to VisionLink, an integrated Cat solution for equipment management, operations management and safety management. The expanded Cat Detect



ABOVE: At bauma, Caterpillar will celebrate its centennial years and 'The Next 100 Years'.

LEFT: Cat 140 motor grader.

portfolio, such as People Detection, Seatbelt Monitoring, Driver Safety System (DSS) and Collision Mitigation, will demonstrate how technologies can maximise safety and performance.

The full suite of Cat Grade offerings will be presented, comprising Cat Grade with 3D and Cat Payload for excavators. Cat Command technology will enable remote machine operation from a safe distance, with a demonstration of machines operating remotely from sites across Europe including at the Caterpillar Demonstration and Learning Centre in Malaga, Spain.

Latest equipment

Joining the compact equipment offering are

three recently introduced Next Generation compact track loaders with upgrades in engine power and torque, lift and tilt breakout forces, stability, operator comfort and technology.

The new D8 dozer will be featured, based on the Next Generation platform. It has a new high-end operator station that is common with the D5-D7 platforms and comes with a 15-degree angled seat for enhanced comfort. Additionally, it introduces a full suite of Assist features and is Cat Grade 3D ready ex-factory, with the option to upgrade to Cat Command remote control.

Making its first appearance at bauma is the 140 AWD Next Generation motor grader. Still in prototype stage, this 20-t

machine consolidates two existing platforms into a common next generation platform for motor graders, providing customers more choices of features, technologies and configurations.

The launch of the new MH3032 further expands the material handler line-up. Ideally suited to serve the scrap segment with a near 15 m reach and up to 1 cu m grapple, this machine is equipped with the ease-of-use features including 2D E-fence with Cab Avoidance, Cat Payload and Swing Assist for enhanced safety, production and efficiency.

Further introductions to the demolition, waste handling and recycling portfolios include the new 330 UHD ultra-high demolition hydraulic excavator. Standard features comprise the Stability Monitoring System with light and sound indicators in the cab on the ultra-high front, Cat Payload and Cat Grade control with 2D for the retrofit front parts. Also joining the line-up is the introduction of the Variable Angle Boom option on the 340 VAB designed for demanding demolition sites.

Caterpillar will display two M323 Next Generation wheeled excavators, configured specifically for the railroad industry. The new M323 railroad excavator offers hydrostatic, friction or hybrid transmission options, providing maximum versatility for customers. It features both long and short radius options addressing specific application needs, while maintaining consistent lifting capacities across both configurations.

A new prototype Cat 775 off-highway truck and the reintroduced 395 front shovel will also be on display. The 775 transitions to the Next Generation platform with increased truck body volume; this machine was designed to deliver superior performance and efficiency. The 395 front shovel features a Cat C18B engine, improved durability and extended service intervals.

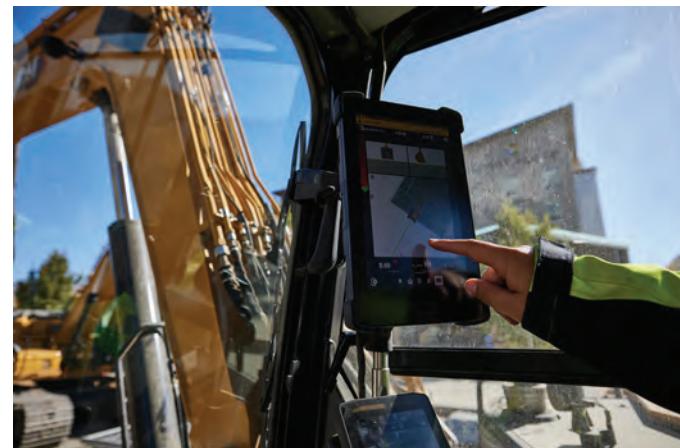
Services and support solutions

As part of Caterpillar's services commitment, exclusive with a Customer Value Agreement, the company commits to next day maintenance and second day common repair parts availability. If parts are not available as promised, costs may be offset by reimbursing customers for the value of the late part up to a specific amount (depending on the country/dealer). Additionally, the programme offers a second day technician response time to fix unplanned repairs.

The Cat Certified Rebuild Programs and Cat Certified Used products will highlight how end-of-life machines can be restored to like-new condition by skilled dealer technicians, who can also provide support beyond the standard machine warranty with Equipment Protection Plans. These offerings can reduce the cost of buying new equipment while also being a sustainable choice by reducing waste and consumption of raw materials.



Cat D8 dozer.



VisionLink machine data.



Cat 775 off-highway truck.

Engines and jobsite power

Caterpillar's industrial engines that are compatible with renewable fuels such as 100% hydrotreated vegetable oils (HVO) will be on display, including the new C13D and a new high power C3.6 delivering 142 hp. There will also be the first showing of a series electric drivetrain, part of a growing electrification ecosystem of solutions from the company; a hydrogen engine testing exhibit highlighting the ongoing fuels development work and a remanufactured C7.1.

Providing reliable onsite power, Caterpillar's range of EUV certified mobile XQP generator sets have been specifically designed to withstand the harsh conditions across many construction sites. The XQP115 genset, compatible with HVO, will be on display.

Another highlight is the XES60 mobile battery energy storage solution (BESS). Since its launch, the XES BESS products have been a key piece of equipment on many construction sites with its rapid plug and play installation. It supports onsite battery electric machine charging.

The XES BESS can be used with a combination of grid connection, generator sets using a variety of liquid and gaseous fuels, and renewable energy sources, such as solar, to store surplus energy and dispatch from these reserves as needed. With automatic monitoring of load levels, it can easily combine power sources and stored energy as necessary increasing jobsite energy efficiency, resulting in decreased fossil fuel usage and associated GHG emissions. ■

Booth: B6.104 / A4.336

LIEBHERR'S SOLUTIONS FOR JOBSITES OF THE FUTURE

Themed 'Hands on the future', Liebherr's booth at bauma will span roughly 14,000 sq m, featuring more than 70 future-focused exhibits from the product segments of earthmoving machinery, material handling technology, mining, mobile and crawler cranes, tower cranes, deep foundation machines, concrete technology and components.

From the earthmoving product segment, the new T 38-7s telescopic handler will make its world debut, setting new benchmarks in the class up to 4.2 t. Plus, Liebherr marks its entry into the 8-m class with the new T 48-8s model.

The concrete technology product segment will introduce its new construction series Mobilimix. The largest variant with a 4 cu m twin-shaft mixer will have its premiere at bauma. This modular construction system gives customers more freedom in plant configuration, as well as shorter delivery times, faster assembly and high parts availability. Improvements in drive technology cut energy consumption by up to 30% and also increase the weighing accuracy, allowing for a saving of up to 8 kg cement for every cubic metre of concrete.

Digital technologies

At the InnovationLab, visitors will have the chance to try out pioneering technological concepts first-hand, whether on-screen or through interactive installations spanning numerous product segments.

A self-driving machine, semi-automated lifts and fully digitally controlled products will also be available at Liebherr's booth. The technological foundation for this is laid by digitalisation, which will come under spotlight at bauma.

There will be a particular focus on the aspects of intelligent machine controls, assistance systems and (semi) autonomous processes, especially since they improve the communication between man and machine as well as between machine and machine.

For the tower crane product segment, visitors will be able to see the K series fast-erecting crane with its improved performance level, modern controls and new operating system.

The mobile and crawler cranes product segment will display seven mobile cranes with new driver-assistance systems, such as the blind spot information system (BSIS) and the moving off information system (MOIS).

The IoMine for the mining industry increases the safety and productivity levels of operations in the mine, reducing machine failure rates through real-time monitoring and, in turn, extending the machine's service life for customers.

The components product segment will be presenting its Energy Planner, a browser-based software for planning every aspect of a construction site's power and energy requirements. For every construction phase, the innovative tool calculates the energy requirements and charging phases of the specific machines, which can be adapted in the app depending on consumption.



LEFT: At bauma, Liebherr will unveil a battery-powered unplugged version of the 300-t LR 1300 SX crawler crane.

BELLOW: The new Liebherr Mobilimix concrete mixing plant features numerous improvements.



In addition, Liebherr will be running a live demonstration of an autonomous working wheel loader in the outdoor area. The basis for this is the in-house developed autonomous driving system called 'Liebherr Autonomous Operations', which is being showcased to the wider public for the first time. The autonomous solution, currently at an advanced stage of development, facilitates completely driverless operation.

Visitors can also discover how Liebherr is revolutionising the working day on the construction site with the Liebherr Remote Control System (LiReCon) for crawler dozers: the new PR 776 G8 70-t crawler dozer can be controlled remotely for greater flexibility, rendering inaccessible areas of operation accessible.

Another highlight is Liebherr Connect, an intelligent interconnection between machines and systems, serving as a connectivity solution that not only facilitates time and cost savings, but also makes machines and systems safer and easier to operate.

The LTM 1120-4.2 mobile crane with LICCON3 control that is on display at bauma, for instance, will be set up for telematics and fleet management as standard and – when combined with Liebherr Connect – enables crane operators to view and evaluate all relevant data via the MyLiebherr customer portal in future.

Sustainable solutions

Liebherr's battery-driven and autonomous T 264 mining truck is the fruition of many years of collaboration between Liebherr and its Australian customer and partner Fortescue in the fields of mining autonomy and zero emissions development. Following MINExpo in September 2024, the technology will be presented to a large, international audience beyond the mining industry for the first time at bauma.

The mining truck is equipped with the Autonomous Haulage Solution (AHS), jointly developed by the two companies. Within the AHS is an energy management system that coordinates the



The K series fast-erecting crane offers modern controls and a new operating system.



The LPO 100 series is available as a drive and basic version.



Liebherr will show the T 38-7s telescopic handler of the new Generation 6 to the public for the first time.



The 'Liebherr Autonomous Operations' system can be followed in the web application as well as live on the test site.

stationary charging processes for the mining truck and ensures that the charger is fully utilised.

Another example of new drive technologies is the LR 1300.2 SX crawler crane. Liebherr is unveiling the 300-t crawler crane model for the first time as a battery-driven unplugged version with the benefits of 'zero emissions'. The crane is powered by a 438 kW electric motor and its 392-kWh battery can deliver up to 13 hours operation on a single charge, depending on the application.

With the new version of the Liduro Power Port (LPO) mobile energy storage system from series 100 and the prototype of a stationary energy storage system LPO 600, the components product segment is demonstrating the opportunities for a zero local emissions energy supply for construction sites, coupled with electric machinery. The LPO 600 mobile charging station has a gross energy content of 564 kWh and can provide sufficient energy for large machines or fleets, even in terrains without the relevant infrastructure.

Last but not least, Liebherr will showcase its large hydrogen wheel loader prototype. Together with its partners, the group is developing innovative solutions for mobile refuelling and a reliable supply of green hydrogen.

The scope of alternative drive technologies that Liebherr is exploring is very broad, including not only battery-operated and mains-operated electric solutions, but also alternative fuels, such as HVO (hydrotreated vegetable oil) as well as hydrogen or ammonia-based drives – some of which will be on show at bauma. ■

Booth: FM.809-810 / FM.812-813 / A4.326 / B5.439 / C1.425 / FOE.1CM.308

TADANO TO 'REACH NEW HEIGHTS'

At bauma 2025, Tadano will showcase its global product range for the first time. "This represents a significant change from previous bauma trade fairs, where our focus was mainly on the EMEAR markets. This expansion of the exhibition reflects both our growth strategy and the successful integration of our acquired brands into the entire Tadano portfolio," explained Toshiaki Ujiie, president and CEO of Tadano.

Tadano's new slogan 'Reaching New Heights' reflects the aim of redefining the possibilities in the lifting equipment industry by consistently focusing on innovation, sustainability and customer satisfaction.

The brand new Tadano AC 5.250L-2 all-terrain crane will make its debut, featuring a longer main boom (79 m) compared to the standard model AC 5.250-2. The high load moment of up to 736 mt in conjunction with a maximum system length of 109 m makes the new crane an attractive option for many applications in which heavy loads have to be lifted to great heights.

Tadano will also unveil a new development in the field of lattice boom crawler cranes. In addition, the group will present its aerial work platforms, which were introduced to the European market in January 2025. These units expand Tadano's product portfolio with a new lifting technology that can offer customers even more comprehensive solutions from a single source. The acquisition of Nagano is crucial for this new line-up.

Decarbonisation efforts

Under the motto 'Our True Mission: Zero Emissions', the Tadano Group has set itself the goal of reducing the CO2 emissions of its business activities worldwide by 25% and those of its products by 35% by 2030. In the long term, the group wants to achieve net zero emissions by 2050. Against this background, Tadano is continuing to expand its solutions for environment-friendly crane operations. This includes the global introduction of the fully electric Evolt rough-terrain cranes, which began in Japan in 2023 and North America in 2024.



TOP, ABOVE AND LEFT:
Tadano will unveil its new AC 5.250L-2 all-terrain crane at bauma. This latest model is equipped with a main boom length of 79 m.

"We are currently fleshing out our plans to introduce these emission-free cranes in Europe and Oceania as an important part of our decarbonisation strategy," shared Mr Ujiie. Other milestones on the way to the decarbonised product range are the e-Pack, electric aerial work platforms, hybrid cranes and cranes for offshore wind turbines. The latter enable CO2-free operation during the construction and maintenance of such systems. Accordingly, these products also have a permanent place in the Tadano exhibition at bauma: the eGR-1000XLL-1, newly launched in North America, will be on display, as well as new models of the AC hybrid cranes that combine diesel-powered mobility with electric crane operation.

Digital services

To further improve its customer services, Tadano relies on innovative digital tools that optimise fleet management, maintenance and operational efficiency. Business partners now have a variety of apps tailored to their needs. One of them is the Tadano Pro app, which offers users a central platform for accessing comprehensive information on Tadano cranes, including data sheets, brochures and presentations.

The Evolt app for owners of Tadano electric rough-terrain cranes provides real-time insights into battery status, operating history and travel routes. This detailed operating data helps make the best possible use of crane performance and supports efficient planning. And the Tadano e-Service platform simplifies access to a wide range of Tadano services under a single account: customers can use tools such as LiftAPI for performance calculations, Hello-Net for telematics and the myTadano portal. The platform also offers seamless employee account management, allowing companies to customise access to specific services for their teams.

The eye-catching highlight at bauma, however, will be the AI-driven tool Hey Tadano. "This groundbreaking innovation offers a level of accessibility and efficiency that sets a new industry standard. Visitors to the Tadano booth will be among the first to see how this technology enables our customers to interact with Tadano's knowledge and expertise," revealed Andreas Hofmann, managing director and executive vice president R&D at Tadano.

Global expansion

Tadano is generating additional growth



ABOVE AND LEFT: The acquisition of Nagano expands Tadano's product portfolio into aerial work platforms.

impulses through strategic acquisitions and the resulting diversification of its product portfolio. In addition to the takeover of Nagano, the acquisition of Manitex International, a leading provider of truck-mounted cranes, along with its brands PM loader cranes, Oil & Steel aerial work platforms, Valla pick-and-carry cranes, and small electric cranes, further strengthens the portfolio.

Another new acquisition concerns IHI Transport Machinery, the crane and material transport subsidiary of IHI Corporation. The company's product range consists of port and shipyard cranes, large luffing cranes for high-rise construction as well as port and offshore cranes, wind turbine cranes, and floating cranes.

"Our adopted growth strategy is bearing fruit and is ensuring increasing demand for Tadano products worldwide," said Mr Ujiie. In order to meet this demand and at the same time ensure high-quality production, Tadano is optimising and restructuring its locations in Japan, Germany and the US. The most important recent investments include the new spare parts centre in Lauf (Germany) for the AC and CC product lines as a critical addition to the existing spare parts centres in the US and other regions worldwide. The group has also invested in new repair workshops in Zweibrücken (Germany), the US and Australia to further expand its global customer service. ■

Booth: FS.1205

ANMOPYC TO SHOWCASE SPANISH TECHNOLOGIES

Company	Booth	Company	Booth
ANMOPYC	A1.216	POYATOS	B1.201
ACCESUS	A1.115	PRENSOLAND	B1.312
FERMAR	A1.224	CAPOTEX	B2.539
IMCOINSA	A1.214	CINTASA	B2.239
MACROZA	A1.220	A. TRISTANY COMAS - DRAGO ELECTRONICA	B2.529
SIMA	A1.125	INELAS	B2.537
ROQUET HIDRAULICS	A3.539	MAQUIARIDOS-MAQCONVEYORS	B2.437
ENGRANAJES ESPECIALES - SPIROIDE	A3.541	NUBA SCREENING MEDIA	B2.543
BEZARES, S.A.	A4.214	ROTRANS	B2.533
BYG	A5.239	ENCOFRADOS ALSINA	B3.448
CIGÜEÑALES SANZ	A5.330	DACAME	B3.115
HIMOINSA	A5.149	LANA	B3.315
INMESOL, S.L.U.	A5.212	ULMA	B4.213
TGB GROUP TECHNOLOGIES	A5.237	RENOGEAR-XUBI	B5.416
TRAZIONE GEARS	A5.350	PUTZMEISTER	B6.100
PRAMAC	A5..427/526	MADERAS GOIRIZ	C1.233
BLUMAQ	A6.149	MOLDTECH	C1.400
COHIDREX	A6.148	PROETI	C1.318
DOGA, S.A.	A6.536	RESIMART	C1.444
ETESA	A6.123	FABRICADOS INDUSTRIALES VIFESA	C1.543
GLASSMOP	A6.513	BARROP	C5.617
MTG - METALOGENIA	A6.437		
AUSA CENTER, S.L.U.	FM.710/3	C. M. COMANSA	FS.1103/1
ENARCO	FM.808/10	FRUMECAR	FS.903A/1
C. M. LLAMADA	FN.622/13	JASO	FS.1003/8
TABE	FN.817/1	MIDI CRANES by EURO CRANE	FS.902/4
		SMOPYC Feria de Zaragoza	EOE.14

BAUER'S SPECIALIST FOUNDATION EQUIPMENT

Bauer Maschinen Group will have 18 large exhibits along with numerous smaller innovations from the world of special foundation engineering. The company's 'Bauer City' will cover an area of roughly 2,750 sq m.

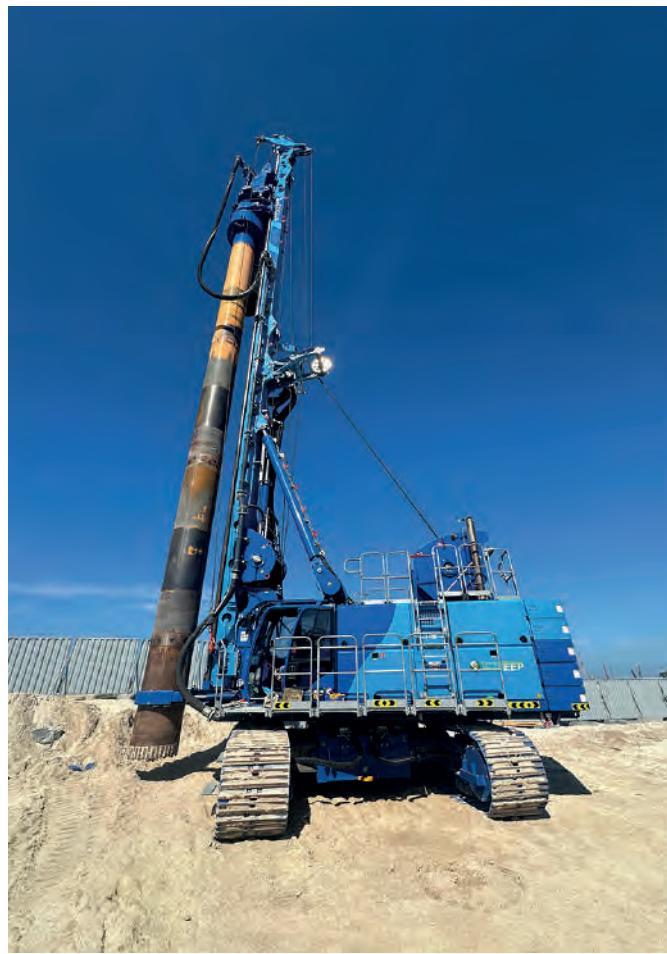
The BG 55 will be the largest drilling rig at Bauer's booth, featuring V-kinematics that offer a high level of rigidity for difficult applications. Equipped with a CCFA package (Cased Continuous Flight Auger) and the new Bauer Torque Multiplier (BTM), the BG 55 sets new standards for drilling depth and diameter.

The BG 30 H showcases the FDP method (Full Displacement Pile), a particularly sustainable option thanks to excellent material excavation performance and low fuel consumption. Another drilling rig exhibited by Bauer highlights the fact that despite all multifunctional innovations, the standard Kelly drilling method still remains a focus in equipment design.

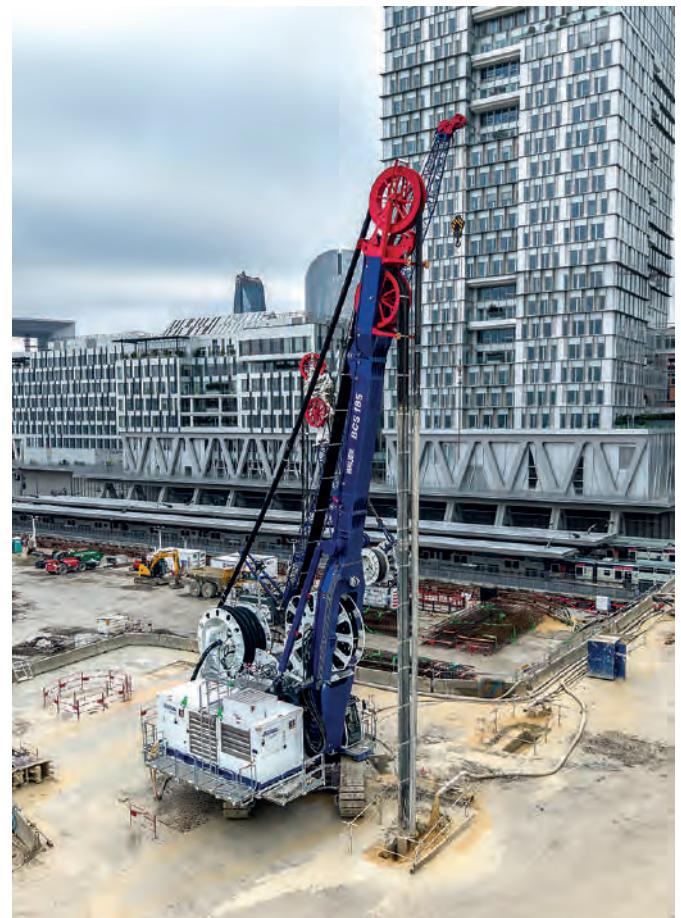
Since late 2024, the Bauer BCS 185 power pack cutter system has demonstrated its performance capacity on the Grand Paris

Express project. This unit is based on the established BCS 185 cutter system, yet features a modular drive concept. Instead of a permanently installed motor, an electric or diesel power pack can be used as required. Thanks to this flexibility, it is possible to operate the system either locally and emission-free with electric power, or conventionally with diesel. The diesel HD 1400 can also be equipped with a Silent Kit to reduce noise emissions, while the HE 1400 electric power pack enables a significant further reduction in noise levels. Another innovation is the variable positioning of the power pack, which can be attached on the side, rear or even apart from the machine depending on the spatial conditions. Thanks to the BCS 185 power pack, the construction of diaphragm walls has never been so sustainable.

A construction site nearly without noise and fumes? The eRG 21 T hybrid from RTG Rammtechnik demonstrates how it's done. The innovative drive combines the power of a 430 kW diesel engine and the precision of an electric motor with



Bauer BG 36 with CCFA package (Cased Continuous Flight Auger).



The new Bauer BCS 185 power pack cutter system can be operated either with a diesel or electric power pack as required.

up to 88 kW of extra power (standard power supply connection: 125 A / 400 V). The combination of the two drives makes it possible to keep efficiency at a consistently high level despite stringent emission requirements. The diesel engine works at reduced capacity, aided by the supporting electric motor, resulting in a significant reduction in both CO₂ emissions as well as noise levels. Hybrid operation reduces fuel consumption, and thereby also CO₂ emissions, by up to 68%. The hybrid equipment also delivers excellent versatility: with a considerable performance capacity, it can handle even the most demanding of pile driving tasks without a problem.

Klemm Bohrtechnik's drilling rigs at bauma will include compact models with variable kinematics systems, powerful anchor drilling rigs and energy-efficient geothermal drilling rigs. For instance, the newly developed KR 717-3GW features a motor capacity of more than 250 kW and is designed for drilling depths of greater than 400 m. The functionalities are extended through a newly developed clamping and breaking device as well as a lateral sliding double-head drilling system.

Other highlights from Klemm include the KR 806-4GM with power-sharing system to reduce fuel consumption and the KR 805-3GW for geothermal drilling at depths of greater than 300 m. All rigs are characterised by high efficiency, modern control systems and powerful technology.

The Multi Shaft Mixing System (MSM) from RTG Rammtechnik GmbH sets new standards in special foundation engineering. With four independent rotary drives and parallel mixing paddles, the system offers more flexibility than conventional triple drives. Continuous feeding in of cement slurry ensures fast and efficient soil mixing. The MSM system has versatile applications, for example in the construction of cut-off walls, groundwater barriers, dike rehabilitation and excavation pits.

The new sheet pile press from RTG will be exhibited on an RG 19 T at the booth of terra infrastructure (FN.720/2). This enables the continuously adjustable use of Z profiles (700 to 800 mm) and rapid hydraulic fine-tuning of the clamping jaws. An increased volumetric flow ensures high pressing speeds of up to 9.4 m/min during extension and 12.0 m/min during retraction. Innovative automated pressing systems and attachment assistants allow for optimised operation.

Bauer MAT Slurry Handling Systems will



Hybrid operation of the eRG 21 T hybrid reduces fuel consumption, and thereby also CO₂ emissions, by up to 68%.



Visitors to the Bauer booth can experience the successor model of the electric-hydraulic Klemm KR 806-3E.

also showcase its products. For instance, the new CMS 50 mixer – the successor model to the successful CMS 45 – delivers 10% enhanced performance, a more precise, intelligent and self-learning control system for exact dosing. A completely new development, the electric and fully automated IPA 250 grouting station features an impressive pumping rate of 250 l/min and the latest technology. New arrivals in the area of separation technology include the BD 30-C decanter

centrifuge with a maximum capacity of 30 cu m/hr and the compact BE 100 desanding plant for geothermal projects.

Last but not least, Eurodrill GmbH, the Bauer Maschinen Group's specialist for hydraulically operated rotary heads and impact drill hammers, will present its products at booth FN.523/6. ■

Booth: FN.519

JASO CELEBRATES 50TH ANNIVERSARY

Celebrating its 50th anniversary this year, Jaso will unveil several new products at bauma. "True to our commitment to innovation and the development of efficient and optimised lifting solutions for the construction, wind energy and industrial markets, we will present our latest novelties," said the company. These include the J165.8 flat-top tower crane, a new cabin, the GPT27 transport platform and the GP40 mast climbing work platform (MCWP) with an innovative monorail system.

The new Jaso J165.8 tower crane joins the company's flat-top range. This latest model is designed for intelligent transport and assembly, featuring a maximum load of 8 t and a tip load of 1.92 t. Its boom lengths are between 30 and 60 m, which can be extended in 5-m increments.

The J165.8 has an extremely short counter-jib of 12.9 m, flat counterweights, a freestanding height of 53.10 m with a 1.75-m tower system, and a high-performance mechanism with a maximum speed of 177 m/min (45 kW). This flat-top crane also delivers a low carbon footprint (Eco Mode with low consumption of 31 kVA).

The crane's design optimises the weight of the components, facilitating quick and efficient assembly even in congested areas. It incorporates advanced technologies such as micro speed, progressive rotation and Smartlink, ensuring efficiency, safety and low environmental impact.

GPT27 and GP40 platforms

As a leader in rack & pinion systems in the wind sector, Jaso also offers construction elevators with a renewed product portfolio, including personnel and material elevators, transport and work platforms, hoists, and tower crane elevators.

At bauma, the company will present its new GPT27 transport platform and GP40 MCWP with a new monorail system.

The GPT27, featuring a maximum load capacity of 2,700 kg, combines cost-effectiveness and robustness, allowing the lifting of material and people quickly to different heights, thus increasing



Jaso will celebrate its 50th anniversary at bauma and introduce several new products.



The new Jaso J165.8 flat-top tower crane features a maximum load of 8 t and a tip load of 1.92 t. Its boom lengths are between 30 and 60 m, which can be extended in 5-m increments.

productivity. The unit can accommodate up to seven people and its internal cabin measures 3.2 x 1.5 m.

The GPT27 has a speed of 12 m/min for people and 20 m/min for material. Its maximum height is 200 m (MN65 mast

system), and the distance between ties is every 9 m. This transport platform is also equipped with a high-performance mechanism (3 x 5.5 kW).

In addition, Jaso's new GP40 MCWP is aimed to transform facade cladding

operations. The unit's monorail system facilitates the efficient movement of material and personnel along the building's vertical extension, optimising the entire cladding process with great precision.

The GP40 is designed to be robust, modular, comfortable and safe. This work platform provides a maximum load capacity of 500 kg, with a maximum track length of 29.56 m for double mast configuration and 10.12 m for single mast. Its maximum height is 350 m (MR50 mast system), and the distance between ties is every 6 m.

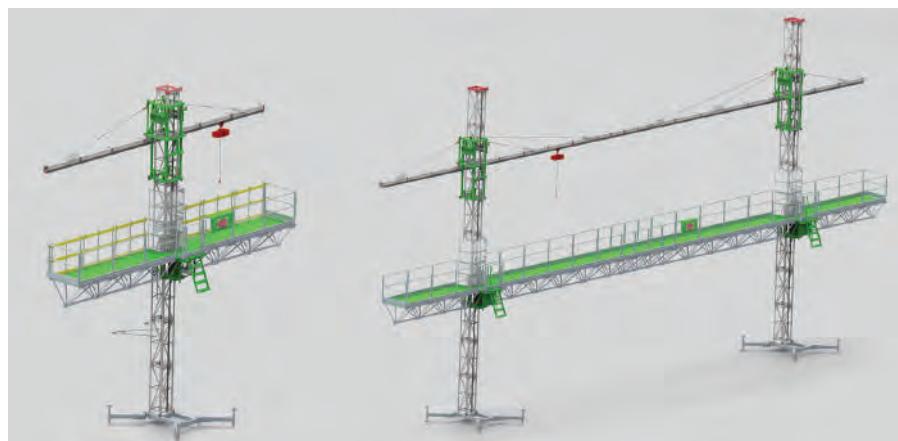
Another highlight from Jaso is its new 'Horizon' cabin, which is designed for greater operator comfort and visibility. Furthermore, the new Jaso Smartlink is a comprehensive tower crane monitoring system that allows users to gain detailed insights into their tower crane operations.

With Jaso SmartLink, users are able to control inefficient times, ensure the correct use of their tower crane and prevent costly breakdowns. By maximising efficiency, productivity and profit, they can easily manage their tower crane fleet, minimise downtime and enhance safety.

The Jaso SmartLink also enables users to gain a competitive edge by harnessing the power of data to make informed decisions, reduce operational costs and boost overall performance. ■

TOP RIGHT: The GPT27 transport platform has a maximum load capacity of 2,700 kg.

RIGHT: The GP40 mast climbing work platform is equipped with an innovative monorail system.



Another highlight from Jaso at bauma is its new 'Horizon' cabin, which is designed for greater operator comfort and visibility.

Booth: FS.1003/8

WIRTGEN'S SMARTER, SAFER AND GREENER MACHINES

The focus of the joint presence of the Wirtgen Group and John Deere at bauma is to help customers become more efficient and profitable through smarter and safer construction equipment, innovative technology solutions and application processes.

The highlights of the 13,000 sq m booth are eight production systems for a variety of applications in the areas of road construction, earthmoving and materials processing. Visitors can look forward to experiencing around 100 machines at first hand and, for the first time, nine live shows. This year, the Wirtgen Group has been nominated for the 'bauma Innovation Award' in two categories.

The group will showcase a wide range of concrete solutions, which have been developed to support and assist the industry in overcoming the challenges of the skilled labour shortage, stringent quality requirements, project documentation and efficiency.

Smart, safe and sustainable solutions are in greater demand than ever before. In view of this, the Wirtgen Group is presenting state-of-the-art machines, technologies and digital solutions for its customers' production systems in the three industry segments. The focus here is on end-to-end solutions for construction projects – from planning to documentation and statistical analysis.

Technology Zone

The Technology Zone will feature the John Deere Operations Center for construction, the centralised platform for digital solutions for the management of jobsites. In addition, visitors will get the first chance to see the Wirtgen Group Performance Tracker (WPT) Paving, WPT Compacting, WPT Recycling and WPT Crushing. Thanks to relevant performance data, these new solutions – and the already known WPT Milling – offer a continuous overview of progress in all processes and can also document the work carried out by each individual machine, such as a milled, paved and compacted area and the materials processed. Performance



The Wirtgen Group and John Deere will occupy an exhibition space of 13,000 sq m.



The Wirtgen Group 'Production System for a Construction Site with Zero Local Emissions' makes it possible to assure compliance with the strict threshold values for emissions applicable especially on urban construction sites and simultaneously increase profitability.

data helps customers make fact-driven decisions that enable them to optimise machine utilisation rates and productivity and derive reference values for planning future projects.

Smart production systems

Production systems include not only the right procedures and digital systems for an application but also the ideal combination of machines. On a walk

along the Technology Zone, visitors will see exhibits including machine-trains for paving with reduced-temperature asphalt, soil stabilisation and materials processing.

The main focus will be the 'Production System for a Construction Site with Zero Local Emissions,' which has been nominated for the 2025 bauma Innovation Award in the 'Climate Protection' category.

Thanks to the battery-powered cold milling machine, road paver and roller, road construction contractors now have access to an end-to-end production system that enables the realisation of road construction projects with zero operating emissions. Solutions from a single source also mean high operational reliability and perfectly coordinated processes in all machines and telematics solutions.

This also applies to the digitalisation and automation solution 'Smart Automation in Roadbuilding', which is one of the top three contenders for the bauma Innovation Award in the 'Digitalisation' category. During asphalt removal and paving, this innovation enables automated realisation of predictable results with high quality and fewer resources in terms of material and specialised personnel.

The motto of the group's presence at bauma, 'Smarter. Safer. More Sustainable', is reflected in the world premières and innovations being presented by the specialised product brands of the Wirtgen Group. For instance, Wirtgen will celebrate the first public appearance of its most powerful large milling machine, the W 250 XF, and the entire generation of new wheeled cold recyclers and soil stabilisers. Vögele has expanded its Dash 5 generation in all performance classes, for example, with the first Super 1803-5 X-Tier wheeled paver or the MT 3000-5 material feeder.

In addition to the new HD 10 – HD 12 G-Tier and HD 90 – HD 110 P-Tier tandem rollers, Hamm will present a range of further models for automated compaction, including the HC 130i C VA compactor. In the future, Kleemann will be offering the first PRO line screening plant for the materials processing sector. This new plant will be used primarily in the processing of natural stone.

When it comes to Benninghoven, visitors can take a closer look at the Multi Jet burner generation, which enables the use of 100% green hydrogen as a fuel. Together with the Ciber technologies for continuous asphalt production, the Wirtgen Group is able to offer a full spectrum of cost-efficient solutions for asphalt production. John Deere rounds



The Wirtgen W 250 XF milling machine will make its first public appearance at bauma.



Vögele will introduce the first wheeled paver of the Dash 5 generation, the Super 1803-5 X-Tier.



With the MobiScreen MSS 1102 PRO, Kleemann presents the first screening plant in the PRO line.

off the machine exhibition with a representative cross-section of products for the construction industry, including compact track loaders, motor graders, wheel loaders and dozers.

For the first time in its bauma history, the Wirtgen Group will present live shows at the booth, featuring products from all the group's brands. The presentations, narrated by specialists from the Wirtgen

Group and John Deere, will provide detailed information about individual smart machines, digitalisation and automation technologies to help drive process reliability and minimise materials usage. ■

Booth: FS.1011

DOKA'S INNOVATIONS TO BOOST PRODUCTIVITY

Doka, together with its parent company Umdasch Group, will display more than 40 innovations in formwork, scaffolding and other key areas covering the lifecycle of a building object, on a 5,300 sq m exhibition space.

To further highlight its ambitions for the next era of construction, Doka will unveil its vision of a fully digitised formwork process. The focus is on enabling seamless process integration through a connected platform to unlock unparalleled transparency and full control over the entire formwork and pouring workflow, anytime and anywhere.

Smart construction area

Doka will introduce a new method for constructing concrete walls: Doka LeanForm is a central pre-assembly platform that, just like an assembly line, allows complete formwork units to be assembled at a safe, controlled workstation, before being lifted into place by a crane. This brings numerous advantages, including shorter distances between storage and workspaces, which minimise transportation needs, reduced search and waiting times on the site, and more. Doka will also present a glimpse into the future, as a robot will mobilise and place various components in the pre-assembly platform.

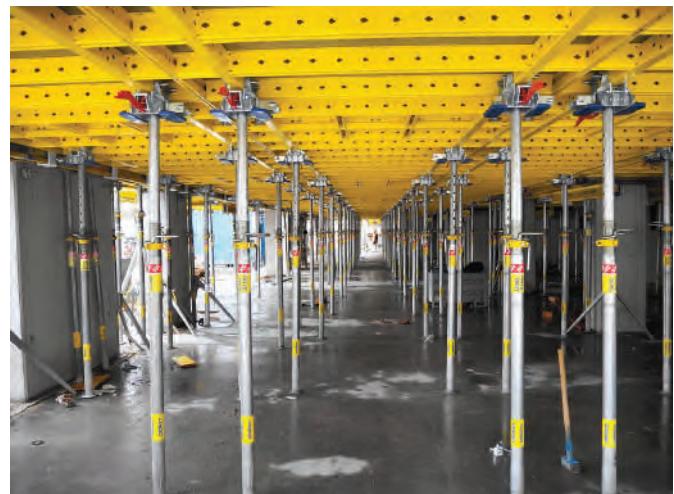
After making its prototype debut at the last show, the DokaXbot Lift has been completely reengineered for bauma 2025. Featuring intuitive ground-level operation, automatic fine adjustments and compensation for floor unevenness, the DokaXbot Lift now enables the precise positioning of formwork elements up to 5.7 m high, making overhead work safer and more efficient.

Doka is setting new industry standards in automating of formwork solutions. With the next-generation drive system Doka FormDrive, the company creates the basis for automated formwork solutions in high-rise and infrastructure construction. The heart of the new system at the high-rise exhibit is a mobile control unit for lifting the climbing system and steering all movements of the wall formwork. This reduces the manual workload while simultaneously increasing safety and productivity.

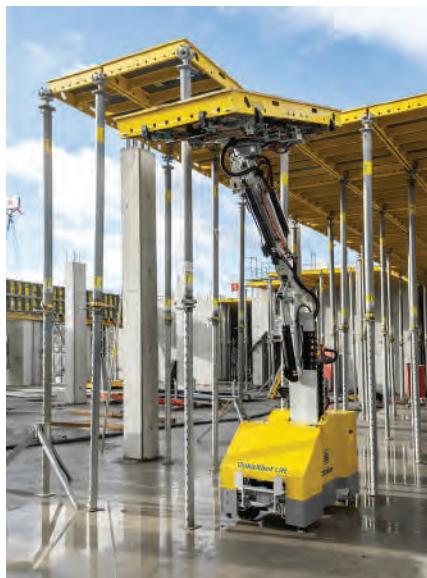
Wall and slab formwork

To boost the spread of new, more climate-friendly concrete mixes, Doka has developed an intelligent heated formwork prototype. Through targeted heating, the prototype accelerates the delayed strength development of CO2-reduced concrete, enabling safe and efficient use on site. Integrated digital sensors allow real-time concrete monitoring to further optimise performance on-site. This prototype will debut at bauma, following successful trials in research projects and on live construction sites.

By integrating circular economy principles, Doka is proving that sustainability and economic efficiency go hand in hand. The Xlife top sheet is the first Doka formwork sheet with a core made entirely from upcycled plastic. Designed for high durability and multiple reuse cycles, it reduces material consumption and maintenance



FROM TOP: Doka LeanForm, intelligent heated formwork and DokaXdek table.



FROM LEFT: Doka UniKit, DokaXbot Lift and Safeflex sliding mesh.

costs, delivering both financial and environmental advantages. At the end of its lifecycle, the sheet is returned to a closed-loop system, where it is processed into new sheet cores.

When it comes to slab formwork, the DokaXdek system family with the DokaXdek table, DokaXdek panel and DokaXdek I-frame will be presented with latest innovations at the show.

A new safety upgrade for beam slab formwork with the Safeflex sliding mesh and Safeflex system, sets new standards in stability and safety in both precast and in-situ concrete applications.

To improve efficiency, Doka is introducing new components to its product portfolio. A key highlight is the innovative XT20 beam, which offers 50% higher load capacity, resulting in up to 15% material and cost savings. Although it has new features, the extra tough XT20 stays within the familiar H20 dimensions without compromising compatibility.

Additionally, the new Doka Eurex 20 basic floor prop combines higher load-bearing capacity with reduced weight, ensuring easier handling and lower costs across all slab systems.

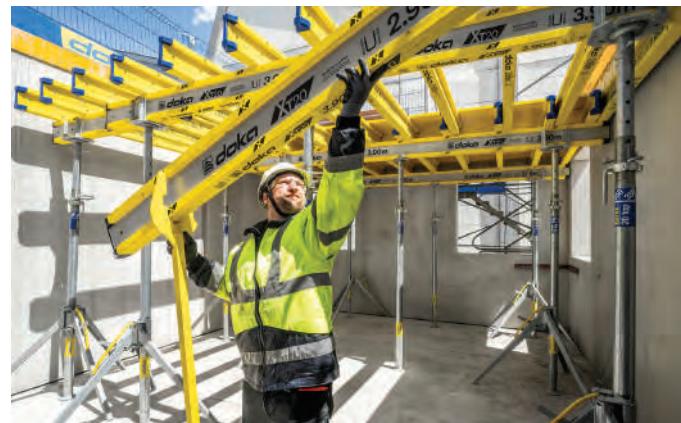
Another major addition to Doka's formwork portfolio is making its debut. In 2024, Doka acquired Malaysia-based MFE, a market leader in monolithic aluminium formwork. Now, at bauma 2025, Doka is bringing monolithic formwork technology to the exhibition for the first time, demonstrating its impact on modern, high-speed construction.

Scaffolding solutions

Doka, together with AT-PAC, the group's dedicated scaffolding brand, will showcase new scaffolding solutions designed to enhance efficiency and safety for both construction and industrial customers. A dedicated area to the new scaffolding product lines will feature developments in facade scaffolding, access systems and expanded shoring applications, increasing the versatility of Ringlock scaffolding for construction projects.

Doka will present the next generation of shoring systems, designed to meet the highest industry standards. Debuting globally, the new DokaXshore is a lightweight, tool-free shoring system engineered for maximum efficiency with a 100 kN leg load capacity. This innovative system is built for projects that demand speed of assembly, ease of use and high safety.

Meanwhile, the Doka UniKit heavy shoring system has already proven itself on high-rise, bridge, tunnel, power plant



Doka XT20 beam (above) and Doka Eurex 20 basic floor prop (below).



All images: Doka

and industrial jobsites. Two major upgrades will be revealed that will soon enhance the versatility of this universal engineering kit: a wall-mounted support that transfers up to 400 kN, even at very short distances from the ground, and the full integration of UniKit heavy shoring with Ringlock scaffolding, enabling safe access and a secure workplace at any height. ■

Booth: FN.420-423



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