

Putzmeister

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PM

POST



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PUTZMEISTER JAPAN CO.

iONTRON LAUNCH IN JAPAN



iONTRON

The launch of the M 42-5 iONTRON hybrid concrete pump on the Japanese market may have been a challenge, but it's one that has opened up endless possibilities. The first 42 iONTRON in Japan was presented at the end of October 2023.

The introductory event was organised at a hotel near Tokyo's Narita Airport to ensure easy travel arrangements for our customers. Putzmeister Japan rented an

event hall there for two days, together with an outdoor area for the concrete pump exhibition. More than 130 customers from all over Japan took part in the 2-day event.

The introductory event began with a speech by PMJ CEO Yuki Oka, in which he emphasised the need for SDG products (SDG = sustainable development goals) in the Japanese construction industry. >>



This was followed by a presentation by Putzmeister Japan's General Manager of Sales, Mr Tadashi Kamiya, in which he outlined the specifications of the exhibited products.

Vaibhav Jadhav (VJ) from the technical department described the features and benefits of the iONTRON machine, including details of the machine's sustainability. This presentation gave an insight into the innovations that underpin iONTRON. The participants were impressed by Putzmeister's strategy to reduce CO₂ emissions and noise pollution, which is set to revolutionise construction in Japan. VJ also presented the new Ergonic 3 system, which is intuitive, precise and user-friendly. Finally, Mr Shugo Ikeda provided information about the upcoming Ergonic 3-compatible machine cockpit.

Demonstrations and practical experience

The iONTRON product launch was more than just a presentation, however – participants were also able to actively take part in the practical demonstrations. First, Mr Kamiya presented the e-mode and diesel mode of the M42-5 iONTRON with the help of the production team. The most fascinating aspect was the noise reduction in e-mode, which far exceeded our customers' expectations.

Many of the attendees expressed their willingness to adopt this sustainable product, since they see it as a step towards a greener future for themselves and their country. The iONTRON has the potential to make a significant impact on the Japanese market and meet the growing demand for environmentally friendly solutions.

Japanese-style buffet and nomikai

Once the sun began to set, the event gradually transitioned into a nomikai – an after-work party in true Japanese style. Mr Yuki Oka broke the ice with a "Cheers!" ("Kampai!") and the guests then enjoyed dinner with traditional Japanese drinks. During the nomikai, Putzmeister Japan served each guest individually to show our gratitude for the day. The nomikai not only gave the participants a chance to socialise in a more relaxed setting, but also provided opportunities to exchange different opinions, impressions and suggestions. The two-day event showcased Putzmeister's sustainable solutions and ignited a shared passion for a greener, more responsible world. We are confident that our iONTRON products will play an important role in shaping a more environmentally friendly and sustainable future.



iONTRON



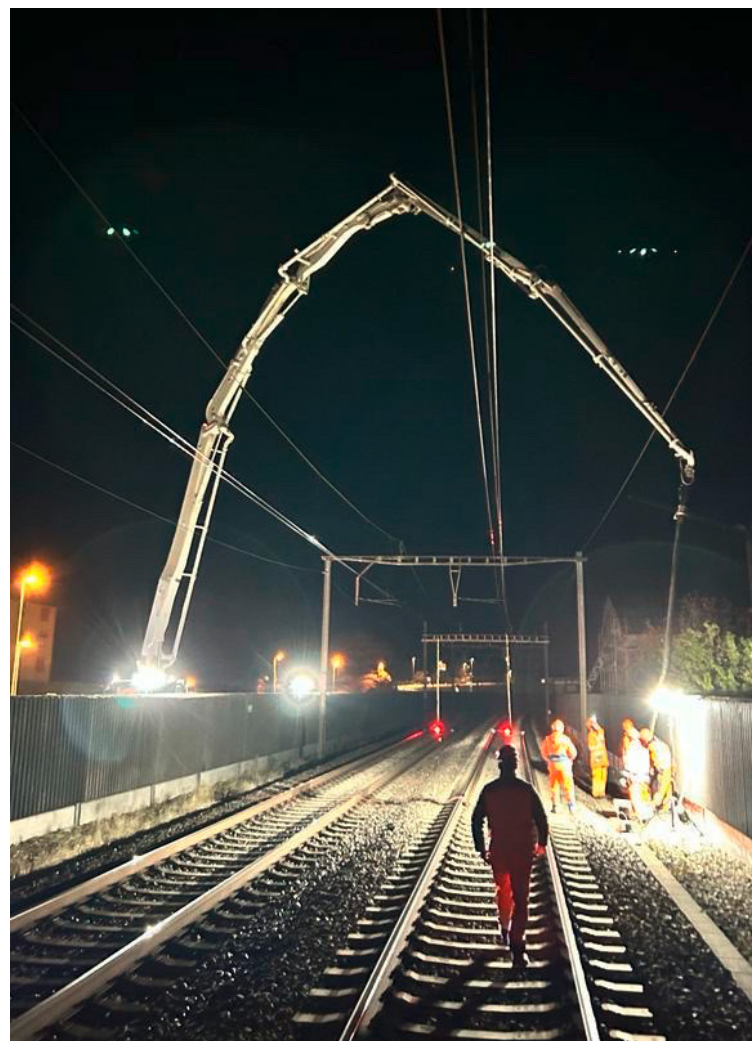
INTELLIGENT CONTROL AND FULLY FLEXIBLE SUPPORT ENABLE EXCEPTIONAL CONCRETING IN TICINO

Confined spaces or fixed obstacles can place particular demands on machines and employees on construction sites. Robert Aebi AG has equipped the Ticino-based concrete pumping service provider Genio Beton SA with a new, modern M 38-5 truck-mounted concrete pump. This has made it possible to carry out a safety-relevant concreting operation in an old sewer underneath the busy Gotthard railway line, which will continue to guarantee the stability of the railway embankment.

Challenging conditions

To minimise disruption to rail traffic, the work in Ticino's municipality of Osogna was carried out at night, during full closure of the line. Preparations were made in close cooperation with Swiss Federal Railways (SBB): After the last train had passed through, the overhead lines were de-energised and earthing cables were installed.

To place the concrete, the placing boom had to swivel over both tracks and under the power line, which required a particular degree of precision. This was due to a number of constraints: The distance from the overhead lines had to be maintained, control over the boom had to be kept, and precise backfilling had to be guaranteed. >>



The M 38-5 truck-mounted concrete pump had to be swivelled past both tracks and the overhead lines of the railway line



Precision with intelligent boom control

In the procurement of the concrete pump, the specialists at Robert Aebi AG therefore advised Genio to opt for intelligent Boom Control (iBC), which makes it easy for the machine operator to operate the placing boom with a single hand, and to move and place it accurately, quickly and safely. Individual boom arms can be specifically blocked and the height of the distributor arm can be specified during concreting. This was used to ensure that there was no contact with the overhead lines. The new Putzmeister BSF 38-5.17 iLS truck-mounted concrete pump from Genio with a vertical reach of almost 38 metres has a sensitive Ergonic 3 control system. It also comes installed with the latest concrete pump, the intelligent Low Stroke (iLS).

Together with the EPS control system, the pump minimises the beating of the end hose when placing the concrete, saves up to 25 % fuel and offers better pumping performance, as well as a longer service life. As the concrete in the sewer duct could not be compacted, self-compacting concrete was used instead. The required six cubic metres of concrete was able to be placed safely and quickly into the old sewer using the modern Putzmeister truck-mounted concrete pump.

ergonic[®]
inside 3



The self-compacting concrete was placed into the sewer duct via a narrow shaft.

About Genio:

Genio Beton SA is a Swiss enterprise that handles the planning, production and supply of concrete. The company was founded in 1964 and began its operations in 1965 with its first concrete mixing plant in Castione, with a capacity of 60 m³/h. The concrete pumping service provider now owns four concrete mixing plants across locations from Bellinzona to Airolo.

About Robert Aebi:

Founded in 1881, Robert Aebi AG – headquartered in Regensdorf, Switzerland – has since established itself in the construction and agricultural sectors. As a trading and service company, the group supplies the Swiss and southern German markets with machinery, equipment and vehicles from domestic and foreign manufacturers.



SUCCESSFUL DEPLOYMENT IN JAPAN:

iONTRON TRUCK-MOUNTED CONCRETE PUMP IMPRESSES IN TOKYO

On 14th February 2024, a successful field test with the iONTRON concrete pump was carried out on a construction site in the heart of Tokyo, in close proximity to residential areas, a park and a school. This test impressively demonstrated the performance of the system under real conditions. Particular focus was given to the reduced sound level of the iONTRON drive and its emission-free properties.

The construction site was developed and organised in close cooperation with one of Putzmeister Japan's leading customers, Nihon Asso Co. Ltd., and one of Japan's largest general contractors, Taisei Co. Ltd.

The iONTRON system proved to be extremely effective for the construction's site quiet surroundings. Thanks to its significantly reduced noise levels, it helped to maintain a pleasant atmosphere for the local residents, park visitors and schoolchildren. It also stood out on account of its considerably reduced emissions, which contributed to improved air quality on the construction site.

The challenges on this construction site were not insignificant, especially in light of the iONTRON drive's performance limit of maximum 60 m³/h at around 25 bar.



The goal of pumping a total of 440 m³ in one day was a demanding task. Yet the M 42-5 iONTRON overcame this challenge with flying colours.

The positive response on the construction site was palpable throughout the day, and everyone involved was impressed by the machine's performance and technology. It left one customer feeling very optimistic: "This test illustrates the potential for a sustainable future in the construction industry. With innovative solutions like this, we can create a cleaner, quieter and more environmentally friendly world for future generations."



A current picture of the construction site: This is a vertical shaft of the municipal sewage system for a residential area.



COOPERATION FOR SUSTAINABLE MOBILITY IN THE CONSTRUCTION INDUSTRY

In future, Putzmeister and Netze BW's services division will be offering a complete package for construction companies in Germany, consisting of a fully electric truck mixer and the associated in-house charging infrastructure for their fleet.

The construction site of the future should be characterised by sustainability, low noise and low emissions. This is the view of construction machinery manufacturer Putzmeister – the world's leading specialist in the delivery of concrete – and Netze BW's services division. The two Baden-Württemberg-based companies are therefore joining forces to shape the future of electromobility.

Taking the SANY eTrucks as a basis, Putzmeister is offering construction companies a fully electric truck mixer and an emission-free concrete pump under the brand name iONTRON. Putzmeister is part of the SANY Group, an international and publicly listed company, and uses the chassis of the purely battery-powered truck models from the Group for its truck mixers. While the truck mixer is powered by a 350 kWh battery, the concrete pump runs directly off the power supply to the construction site, similar to a site crane. This provides construction companies with machines for low-emission work on construction sites that reduce both air and noise emissions in the local area.

To ensure that work runs smoothly during the deployment, it is of the utmost importance that electric vehicles are charged sufficiently. Considerably different infrastructure is required in this situation than would be needed for refuelling petrol- or diesel-powered vehicles. Netze BW's services division offers a complete solution for a company to have its own in-house charging infra-

structure by means of collaboration: From consulting, design, planning and construction through to operational management. The company has many years of expertise to draw on, and has been involved, for example, in a project commissioned by Energie Baden-Württemberg AG (EnBW) to set up fast-charging locations in the EnBW HyperNetz, Germany's largest fast-charging network.

For Kevin Eichele, who is responsible for the market launch of the electric mixer at Putzmeister, the electrification of the construction industry is a must. "With our iONTRON product range and SANY's electric trucks, we can make an active contribution to greater climate protection and promote a reduction in carbon emissions >>





throughout the construction process. Electric trucks are ideal for use on construction sites, especially in cities or suburban areas, as they are quiet and emission-free.” Logistics and the movement of goods are important aspects of the construction industry. It is crucial that materials and equipment arrive at construction sites on time and can be moved around easily once they’re there.

Having the right charging infrastructure in place is therefore a crucial factor in keeping low-emission and electric vehicles ready for use depending on the requirements profile. “Climate protection is a serious matter for us and it’s something we’re taking responsibility for. That’s why we’re supporting companies in the construction industry in their transformation to sustainable mobility,” says Achim Lotter, who is responsible for the development and sale of eTruck charging infrastructure solutions at Netze BW’s services division.

Through upcoming customer projects, both companies intend to deliver specific examples of how such a transformation with sustainable electrification can work successfully in the construction industry.

The construction industry in transition: Putting the focus on climate protection

The construction industry is growing worldwide, incurring a wide range of effects on the climate and the environment. Increasing numbers of new roads and buildings are being built, especially in cities. The effects of global climate change are also prompting the construction industry to take responsibility and adopt a climate-neutral approach. The Global Cement and Concrete Association plans to reduce its own carbon emissions by a quarter by 2030 compared to its 2020 figures. The construction industry has a number of technical and innovative solutions for realising political and social goals. These mainly focus on the use of resource-saving construction materials and reducing emissions from construction vehicles. The cooperation between Putzmeister and Netze BW’s services division supports construction companies in Germany on their path to sustainable mobility.





IT'S USUALLY MUCH MORE THAN JUST THE PUMP...

PUTZMEISTER INDUSTRIAL TECHNOLOGY IMPRESSES WITH COMPREHENSIVE PROJECT MANAGEMENT

At Plant 1 at its site in Sankt Veit an der Glan, the Austrian company Fundermax operates two incineration lines with fluidised bed combustion, in addition to having approval for the co-incineration of sewage sludge.

At present, the sewage sludge is accepted via an existing reception plant, stored temporarily and then fed to the two boiler plants.

In order to operate the existing circulating fluidised bed furnaces even more economically, the sewage sludge handling system was expanded to include a complete system from reception to incineration. This was all handled by a single source – namely, Putzmeister, in its capacity as an experienced systems supplier.

One particular challenge was to construct the 64 m³ reception bunker and the 500 m³ storage silo in an existing building. The entire assembly of the silo took place on the customer's premises. As the silos could not be transported in their entirety due to their size, they were instead delivered to the construction site as half shells and then welded together there to form round silo blocks. This approach offered advantages in terms of transport and handling. Nevertheless, to carry out this kind of significant on-site project at Fundermax, it was necessary to cordon off an area of an appropriately large size for use over several weeks.



The hall roof had to be opened up so that the silo components could be brought in. Using a 125-tonne crane, the 17-metre-high silo was precisely lowered into the existing hall via the open roof and placed on the pre-installed silo base with centimetre-accurate precision. The hall roof was then closed up again. In its final state, the silo now protrudes above the roof. To ensure that the hall remains dry even in adverse weather conditions, the silo was fitted with a 'rain collar'. This seals the gap between the hall roof and the silo wall and drains the rain away via the roof.

As a solution provider, Putzmeister was responsible for the entire planning, management and implementation of this project. >>



A hydraulic cylinder drives the sliding frame, which feeds the double-shaft discharge/precompression screw conveyor. This in turn feeds the sludge to the piston pump, which transports the sludge to the incinerator.

All components are driven by a common hydraulic power pack. This solution significantly reduces the number of components and simplifies maintenance and servicing.



Products supplied by Putzmeister:

- Reception bunker 64 m³ (4 x 4 x 4 m)
- PDSL 4040 sliding frame
- SHS 3752 SH discharge screw conveyor
- KOS 1480 HP highdensity solids pump
- HA L 200 hydraulic power pack
- Pipeline engineering from the reception bunker to the storage silo, diameter 200 mm
- FKA 200 foreign body trap
- Storage silo 500 m³ (diameter 6 m)
- PDSF 6000 sliding frame
- SHS 5342 SH precompression screw conveyor
- KOS 1070 HP highdensity solids pump
- HA 75 CI hydraulic pack
- SEP 315 control cabinet
- Pipeline engineering from the storage silo to the boiler, diameter 150 mm

Operating parameters:

- 50 m³/h from reception to storage silo
- 14 m³/h from the storage silo to the incinerator

Material delivery:

- Municipal sewage sludge, dry matter content approx. 15 – 35 %



**MORE INFORMATION
ON SILO TECHNOLOGY**



SUPPORT FOR IMPORTANT CONNECTIONS IN CALIFORNIA

SMOOTH TRAFFIC FLOW ACROSS THE AMERICAN RIVER IN SACRAMENTO



The bridge across the American River on the Capital City Freeway connects commuters to medical centres, employment opportunities and activity centres in downtown and east Sacramento. This multi-lane, 2.4 km long bridge was originally built in 1954 with two lanes in each direction. In 1966, an additional lane in each direction was created in the central reservation. In 1977 and 1988, the bridge was seismically retrofitted at various points.

Today, the bridge has transverse and longitudinal cracks in the carriageway, concrete spalling and a high content of corrosive chlorides in the concrete surface, which poses a risk to traffic safety. For this reason, the California Department of Transportation (Caltrans) has embarked on a \$200 million bridge renovation project that will remove and replace the existing concrete carriageway, widen the bridge and add a bike and pedestrian path. >>



The construction work began in 2022 and is scheduled for completion in 2026. Conco Pumping, which operates in California, Oregon and Washington, began concreting the four pillars for the bridge at the end of 2022 in partnership with American River Construction (ARC). This was followed by the concreting of the new carriageway.

A complex task

For financial reasons, ARC had to install floating work platforms or barges to facilitate the construction work in the river. Taking this unusual situation into account, ARC selected Conco Pumping as the contractor for the concrete pumps. The pump service provider selected three Putzmeister truck-mounted concrete pumps for this complex project: The 39Z-Meter truck-mounted concrete pump, an MX32-36 stationary boom and the MX34-38 stationary boom.

The 38Z stationary placing boom was set up on a barge and supplied with concrete by the 39Z truck-mounted concrete pump via a 213 m footbridge between the cofferdams of the truss.

The 38Z stationary placing boom has a vertical reach of 37.5 metres and a flexible multi-Z boom with four arms; the 39Z truck-mounted concrete pump with .13HPD core pump made it possible to pump the concrete over the long distance involved.

“This is an extremely unusual setup. I've been in this business for more than 30 years, and you don't see this kind of thing often,” remarked Brian Lywandowsky, Managing Director of Conco Pumping. “We generally use Putzmeister for all our concrete placements because they make things so simple and we can rely on them. They have perfected this type of equipment and these two machines were key to our success on this project.” The .13 HPD core pump is normally used in building construction. It is the most powerful and durable pump on the market, with an output of up to 138 cubic metres per hour and a pressure of 85 bar (rod side). Its robust design enables it to withstand construction site conditions under high pressure and over long distances. The pump was crucial to the ability to efficiently pump a typical concrete mix used in bridge construction – consisting of heavy, coarse aggregates with a low water-cement ratio – over long distances.



The 39-Z truck-mounted concrete pump was placed on a transition liner and pumped over a 213-metre long footbridge, built between cofferdams, to the placing boom on a barge. The .13 HPD core pump reliably supplied the 39Z and 38Z placing boom with concrete over this long distance.

“Standard bridge mixes are not normally suitable for pumping with the placing boom over long distances. But because we had the .13 HPD core pump, we were able to overcome these problems and had the power we needed to finish the job. It's a fantastic device,” says Lywandowsky.

A close partnership

The pump service provider worked with the general contractor to build a 213-metre pipeline to pump the concrete. After consulting with the pump manufacturer's technical department, the engineers designed the special device for attaching the placing boom to the barge.

“We worked very closely with Putzmeister's technical department to confirm that this process would work. For this project, it was very important that we were able to contact them and get quick answers,” says Lywandowsky. >>



Once the pump operator had confirmation that the plan would work, it took about six days to assemble and set up the equipment on the custom-built frame on the barge. “Due to the great flexibility, we were able to adapt the equipment to this plan within a day,” he said.

The team carried out three to four concreting operations for each of the four pillars, which equates to a total of 268 cubic metres of concrete. From 1:00 a.m. onwards, around 23 cubic metres of concrete per hour were poured continuously for 12 hours to guarantee an even flow of ready-mix concrete. Working in the dark hours of the night had the advantage that the temperatures were lower and the concrete could therefore be worked for longer.

“It was the strength of the pumps that allowed us to pump the heavy mixture over such a large area and for a long period of time without overheating and without stressing the hydraulics, which is very unusual,” says Lywandowsky.

Adaptation to the weather

Another reason why Conco opted for machines from Putzmeister was the ease of assembly and disassembly thanks to the bolt connections, which allow the stationary boom to be moved within a few minutes. This was critically significant when the historic rainfall in California in 2022 caused the river to rise and flood the entire construction site. >>



The pump operator used a 39Z-Meter truck-mounted concrete pump with a .13 HPD core pump and an MX32-36 placing boom to concrete four pillars. It pumped about 23 m³ per hour continuously for 12 hours, starting at 1:00 a.m. in the nighttime to minimise time spent pumping in the California sun and heat.



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“The ability to set up and dismantle quickly was an important factor, since it allowed us to keep to the schedule and fulfil our tasks. The fact that we don’t have to screw everything together has saved us a lot of time. Everything is fastened with bolts that we can hammer in with sledgehammers, which enables quick assembly and disassembly,” says Lywandowsky.

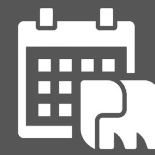
He is convinced that the equipment made a decisive contribution to placing the concrete efficiently in a difficult situation. And he assumes that the equipment will be just as important in the next phase of concreting the bridge deck.

“There were hundreds of thousands of dollars at stake, and it gave us confidence that we had the right machines for the job,” he said. “The confidence we have in our equipment is a big factor. When we are on site with these machines, we have the certainty that we can get the job done.”

Developer: California Department of Transportation (Caltrans)
General contractor: American River Construction Consulting, Inc. – Placerville, CA
Contractor for concrete construction: American River Construction Consulting, Inc – Placerville, CA

Contractor for concrete pumping: Conco Pumping and Belting, Inc. – Concord, CA
Ready-mix concrete supplier: CEMEX – Sacramento, CA
Equipment: Putzmeister 39Z truck-mounted concrete pump, Putzmeister MX32-36 and MX34-38 stationary booms





SUCCESSFUL EVENT: WORLD OF CONCRETE 2024

As the original annual international trade fair for the commercial concrete and construction industry, World of Concrete in Las Vegas is now celebrating its 50th anniversary and remains the largest event of its kind.

It showcases innovative products and technologies alongside exciting demonstrations and competitions, as well as a first-class training programme through indoor and outdoor exhibitions with the industry's leading suppliers.

As in previous years, the week-long trade fair began with the annual Putzmeister VIP event, where customers and dealers were invited to an exclusive evening at Intrigue Nightclub in the Wynn Las Vegas resort. Over 350 guests filled the venue to capacity and took the opportunity to socialise with other Putzmeister employees and partners.

Over its 1,115-square-metre stand, as well as in the outdoor area, Putzmeister showcased 12 machines from its concrete and mortar technology divisions.

Other machines were exhibited at the Kenworth and Peterbilt stands. The Putzmeister aftersales team was

also on hand to give detailed demonstrations of products and services such as the machine cockpit, spare parts and pipework technology. The mix of machines and service solutions presented were met with great interest among visitors to the stand.

In addition to proven .16H pumps like the 39Z, 42Z-5 and 47Z, the new iLS core pump was introduced on a 39Z, the 47Z iONTRON and the 60Z pump.

The newly developed 'intelligent Setup Assistant' (ISA) – only available in the USA – was demonstrated on the Telebelt 130 Generation 3 and on the prototype of the iONTRON 47Z. The BSA 1005 iONTRON prototype and the new generation of the Magnum combination mixing pump were also on display.

A total of 38 employees and a number of dealers from North, Central and South America and the Caribbean took part in the trade fair. These were available for discussions and meetings with existing and future customers.

Feedback from customers, dealers and other trade fair visitors unanimously emphasised that the Putzmeister stand was one of the best at the event.





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RECORD ORDER: 60 MIXOKRET M 760

THANK YOU FOR CHOOSING PUTZMEISTER!

Putzmeister's mortar machines division would like to sincerely thank one of its exceptional customers, key account customer VED.

VED made history in 2023 by placing a record order for 60 units of the Mixokret M 760 – the largest order from a single customer for the Mixokret in the entire Middle East region.



Mr Yildiz of VED and Mr Symala, Regional Sales & Application Manager for Putzmeister Middle East



**MORE INFORMATION ON
THE MIXOKRET M 760**



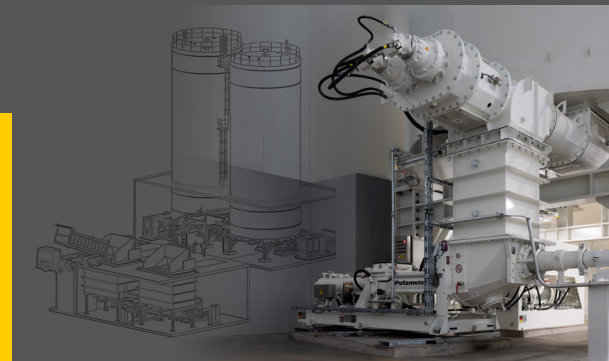
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EVENTS

IFAT 2024

We are pleased to invite you to this year's IFAT – the world's leading trade fair for environmental technology – which will take place in Munich from 13–17th May 2024 at Messe München.

This year, at **Putzmeister's stand in Hall B1 (Stand 351/450)**, you can expect to see an original S transfer tube piston pump, a feed screw, and variety of digital information on the complete service that we offer, from the planning through to the regular maintenance of your system. The team from Putzmeister's industrial technology division look forward to discussing any questions you might have or any other topics with you, in a number of different languages. Please don't hesitate to approach us with your projects, plans and proposals for handling sludge and other high-density solids.



Schedule an appointment at our stand and take the opportunity to make valuable contacts and expand your business.



MORE ABOUT IFAT MUNICH 2024



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PUTZMEISTER MACHINES IMPROVE EFFICIENCY IN THE EAST SABAH AL-AHMAD RESIDENTIAL COMPLEX PROJECT IN KUWAIT

The East Sabah Al-Ahmad housing project in Kuwait, initiated by the country's ministry for housing, is a project comprising the construction of 1184 houses as well as public buildings, roads, car parks and network infrastructure. And the SP 11 LMR from Putzmeister is playing a significant role in bringing it to life.

Originally, the contractor was relying on having the plaster mixed manually on site – a labour-intensive method that's prone to inaccuracies. In the search for a more efficient solution, the SP 11 LMR was tested on the construction site of a residential project. The project team was very impressed.

The versatility of the SP 11 LMR was fully demonstrated during the test. It effortlessly handled various mixing ratios at a remarkable speed, which meant that it was able to complete the entirety of the given job within the test as well.

Impressed by the success of the trial, the contractor did not hesitate to purchase seven SP11 LMR machines to carry out the plastering application at the East Sabah Al-Ahmad residential project.



**MORE INFORMATION
ON THE SP 11 LMR**



ANNIVERSARY CELEBRATION

50 YEARS OF PUTZMEISTER SOUTH AFRICA



Celebrating a milestone: Putzmeister South Africa marks 50 years of excellence

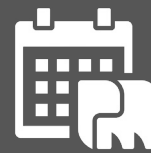
In a remarkable celebration of half a century of dedicated service, Putzmeister South Africa commemorated its 50th anniversary at a major event in Honeydew, Roodepoort.

The celebrations not only honoured this impressive milestone, but also the company's long history, its numerous successes and its constant commitment to excellence.

In a warm welcoming speech from management, the great appreciation for the commitment and dedication of Putzmeister South Africa was also expressed.

Putzmeister has contributed significantly to the building, construction and mining industries for almost seven decades. In the midst of this heritage, Putzmeister South Africa stands out as a pioneering subsidiary. >>





The South African history of Putzmeister began in 1973 in Wynberg, Sandton. In 1996, the company moved to Honeydew, where Putzmeister South Africa started a new chapter with a team of 11.

Over the decades, the company has expanded, taken on new tasks and successfully overcome various industry-specific challenges to establish itself as a leader in the sector. Putzmeister South Africa's portfolio comprises involvement in numerous iconic projects, including the concrete pumps for the Koeberg nuclear power plant, Pontie, the Gautrain project, the Leonardo Hotel in Sandton and many other structures that characterise South Africa's major cities.

Expansion and major projects in sub-Saharan Africa:

Putzmeister South Africa has expanded its presence over time, and has accordingly been entrusted with major infrastructure projects throughout the sub-Saharan region. Some of these projects are described below.

Tallest building in East Africa:

In 2015, the construction world witnessed a remarkable feat of engineering and architecture with the completion of the tallest building in East Africa at the time. This iconic 40-storey building serves as a testament to Estim Construction's exceptional capabilities, which were supported by the innovative use of Putzmeister equipment. This structure remained the tallest building in the country until 2016 and continues to epitomise architectural excellence and urban development.

Julius Nyerere dam project on the Rufiji River in Tanzania (completion 2024):

In 2018, a significant milestone was reached in the construction of the Julius Nyerere dam project on the Rufiji river in Tanzania. The concreting for this ambitious 2115 MW hydropower plant project was successfully completed using state-of-the-art Putzmeister equipment, with six truck-mounted concrete pumps involved.

Kamoa copper reservoir:

DRA Global, based in Johannesburg, South Africa, has been closely involved in the Kamoa-Kakula copper project since its beginning. In 2018, the company took on the responsibility of developing a process based on the initial metallurgical results. Their meticulous work included a detailed desktop study to develop a dedicated, stand-alone treatment plant to process the entire waste stream generated by the Phase 1 and Phase 2 concentrators. The design incorporated conventional technologies such as high-capacity grinding mills and Jameson cells (owned by Glencore) for flotation, as well as an advanced thickening capacity that utilised Putzmeister's sub-surface technologies, which play an important role in optimising construction processes.

Msikaba bridge project:

Currently under construction: The Msikaba mega-bridge will be the second-longest bridge in Africa after the Maputo-Katembe bridge in Mozambique. The Msikaba bridge is scheduled to be completed by the end of 2024. During the first phase, two BSF 36-4s were used for both tower foundations to ensure an optimal work flow on the ground. Once the 30-metre mark was reached, two BSA 1409 Ds were called in to transport concrete to a height of 125 metres.

BSA stationary pumps at mining projects in Zimbabwe:

Several mining industry projects are planned in Zimbabwe over the next two years, including a 2700 m³ reinforced concrete access road to a hydroelectric power plant. A gypsum infrastructure for an area of 6000 m³ is also planned, in which two BSA 1005 Ds and one RV12 LIFT rotary distributor will be used. >>



Putzmeister South Africa’s solution for cost-effective housing projects

Putzmeister’s vision for the future comprises a world where housing and infrastructure are affordable and sustainable. The introduction of a ground-breaking innovative 3D printer – named KARLOS – represents an ambitious response to the challenges in residential construction faced by many in the region. The 3D printing system is set to significantly reduce costs and improve safety on construction sites. But above all, KARLOS also promises a remarkable improvement in building efficiency compared to conventional methods, making it a robust solution for cost-effective residential construction projects.



People make the difference

In the midst of all the machines and projects, it is the people of Putzmeister South Africa who really stand out and define the company’s character. The company’s dedicated employees – who wore their typical Putzmeister shirts on this special anniversary celebration occasion – are a well-oiled team and continually strive for excellence. They have played a decisive role in leading the company to its current success.

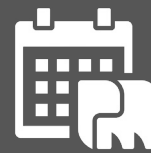


Valued customers

The success of Putzmeister South Africa would not have been possible without the continued trust and support from its customers. Indeed, they are more than just customers: They are visionary leaders, trailblazers and pioneers in their respective fields. Their achievements are a testament to their rock-solid vision, determination and confidence in Putzmeister South Africa.

A message from the founder

Putzmeister’s founder, Mr Karl Schlecht, also took part in this momentous occasion via video link, congratulating Putzmeister South Africa on their remarkable work over the last 50 years and wishing them all the best for all their future endeavours. Although Mr Schlecht is no longer directly involved in the global Putzmeister company, Putzmeister South Africa remains close to his heart. >>



In his speech, he emphasised the importance of Putzmeister's expertise in promoting trust and innovation in the building, construction and mining industries. This trust goes beyond the outstanding quality of the products and also includes the key role that the company's dedicated employees play in building and maintaining customer relationships.

Looking to the future

Going into the future, Putzmeister South Africa intends to remain true to its goal of constantly pushing the boundaries of innovation, delivering excellence and redefining the possibilities within the industry. Putzmeister South Africa is more than just a company – it embodies a legacy of successes and stands for visionary approach and enduring commitment.

Concluding words

The ceremony ended with a quote from Friedrich Alfred Krupp: "Start small, persevere through difficulties, strive for greatness."

Putzmeister South Africa owes its success over the past five decades to its customer-centred approach, unwavering team spirit, high-quality product offerings and firm commitment to innovation.

The event concluded with a raffle where one lucky winner could win a trip to visit the Putzmeister headquarters in 2024. As a special gesture, participants received specially brewed beer and engraved beer mugs to commemorate Putzmeister South Africa's 50 years in the industry.

(Text by Celeste Lombaar and Rudy Myburgh)





AGGREGATE INDUSTRIES WELCOMES SECOND eMIXER



Aggregate Industries has expanded its fleet and welcomed another electric concrete mixer as part of its ongoing journey to carbon neutrality.

The leading supplier of building materials, whose UK group headquarters are located in Leicestershire, has unveiled its latest electric vehicle (EV) expansion at its Coleshill Readymix plant in Birmingham. It will serve the West Midlands and supply the ongoing High Speed Rail 2 (HS2) operations at both Coleshill and Kingsbury Road. Putzmeister, a leading manufacturer of concrete technology, offers the fully electric eMixer under the iONTRON brand. The electrically powered lorry with a 350 kWh battery is provided by the parent company SANY.

The eMixer guarantees zero emissions and significantly reduced noise during transport and on the construction site. The iONTRON eMixer has a drum capacity of 9 m³ and provides an operating time of up to eight hours in urban areas. The EV fleet and battery storage specialist Zenobē has provided the charging infrastructure for the eMixer with a 120 kW/h charger at the Coleshill site. Zenobē has also integrated EV charging software to monitor the charging behaviour of the eMixer and gain valuable insights into the operational performance of the vehicle's batteries. This data will be used to develop and implement Aggregate Industries' long-term strategy for the electrification of its fleet. >>



It is the second eMixer lorry that Aggregate Industries has added to its fleet after the first was launched in London in May – the first eMixer ever to operate in the UK capital.

A second Putzmeister iONTRON eMixer will be added to the fleet in Birmingham in the coming months.

Gary Brennand, managing director of Aggregate Industries' Readymix division, commented: "We are delighted to welcome our latest electric truck mixer in partnership with Putzmeister. Our mission is to be the UK market leader in innovative and sustainable building materials and to decarbonise the construction industry. The electrification of our vehicle fleet, machines and plants is an essential part of this and helps us to achieve our CO₂ neutrality targets.

This is our second electric truck mixer to be used in the West Midlands, supporting the construction of HS2 in the region with our low-emission products. Traditional truck mixers use diesel fuel, so having vehicles with zero

emissions on the roads is a hugely positive step in our business. We are at the beginning of our journey, but it will pick up speed as the technology develops, as will the infrastructure."

Kevin Eichele, head of business development for SANY eTrucks, commented: "Electric lorries are a genuine alternative in urban areas. Drivers will particularly appreciate the performance and low noise level. We are very excited to start this revolutionary journey together with Aggregate Industries."

Steven Meersman, co-founder and director of Zenobē, commented: "This shows that with cross-industry collaboration, solutions for the electrification of heavy-duty fleets are easily achievable. We are pleased to contribute our charging infrastructure and data expertise, as well as our proven experience in the electrification of large fleets, to enable the integration of a second eMixer into Aggregate Industries' electric fleet."

By Aggregate Industries

100 % ELECTRIC

Driving	8x4 SANY 408P electric truck
Mixing	P 9 G iONTRON electric truck superstructure

100 % ENVIRONMENTALLY FRIENDLY

CO ₂ emissions	down to zero*
Noise emissions	significantly reduced
Fuel consumption	zero litres of diesel
Electric chassis consumption while driving (unladen)	120 kWh/100 km

100 % PRACTICABLE

Working range**	350 kWh – approx. 8 hours of operation in inner-city areas
Fill level and additional load	9 m ³ nominal fill level, comparable with a conventional mixer
Battery charging	standard CCS Combo2 (up to 250 kW)
Permissible gross weight	32 t
Technically permissible weight	38 t (7.5 / 7.5 / 11.5 / 11.5)

* Depending on local electricity mix
** Depends on external factors such as additional load, driving behaviour, weather, etc.





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