

Putzmeister

#97 | JULY 2026

PM POST



HIGH-LIGHTS

PUTZMEISTER WORLD

- # When the concrete wall comes out of the printer >>
- # Horb B 32 High bridge >>
- # The new Putzmeister BSF 67-5 long-boom pump is pumping 500 m³ of floor slab >>
- # New CO₂ calculator from Putzmeister >>
- # Pioneering Australia's first underground lithium mine with Putzmeister technology >>
- # Two extremes of the Putzmeister KOS – the world of piston pumps >>
- # Safe set-up in the tightest of spaces
Intuitive range assistance for every construction site >>
- # Wetkret 2 Narrow Vein >>
- # Australia's largest renewable energy project: Snowy 2.0 >>

PRODUCT-NEWS

- # Successful test of the AutoPouring prototype >>
- # The world's first fully electric truck-mounted concrete pump iONTRON eBSF 42-5 >>



Putzmeister

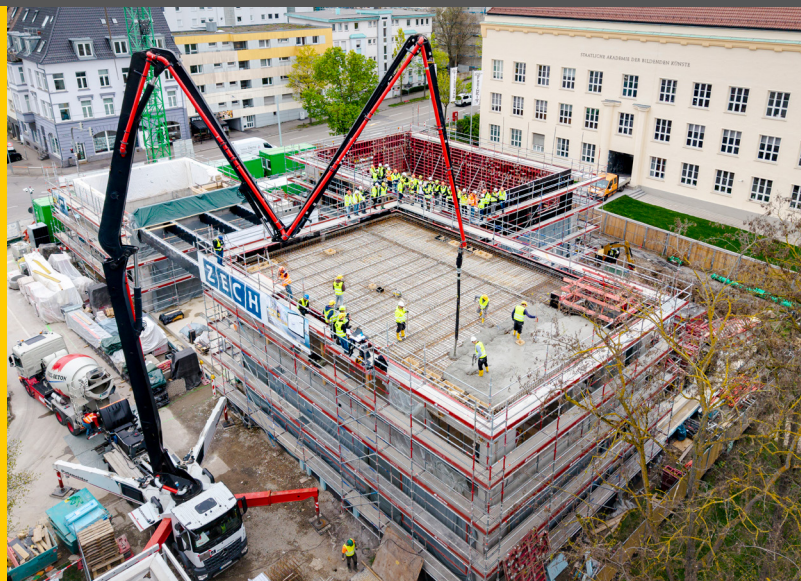
FOLLOW US:





SUCCESSFUL TESTING OF THE AUTOPOURING PROTOTYPE

PUTZMEISTER SUCCESSFULLY PRESENTS AUTOPOURING AT THE WEISSENHOF.FORUM



Aichtal, April 2026 In cooperation with our partner ZECH Hochbau AG, the first high-profile construction site of the AutoPouring project was recently successfully poured with concrete. Under the watchful eyes of the ZECH Executive Board, the customers, Mr. Godel (Godel Beton), Putzmeister Group Board member Dr. Xiangyang Jiang, and a total of approximately 25 visitors, the floor slab of the Weissenhof.Forum was produced automatically.

The Weissenhof.Forum will serve as the visitor information center for the world-renowned UNESCO World Heritage Site Weissenhofsiedlung, a model housing estate from 1927 that sparked the modernist movement in architecture, which continues to shape our living spaces today. To mark the 100th anniversary, the International Building Exhibition 2027 is returning to Stuttgart, with the Weissenhof.Forum as one of the exhibition's central structures.

IN THIS SPECIAL SETTING, THE INVITED GUESTS WERE ABLE TO EXAMINE SEVERAL NEW DEVELOPMENTS AND PROTOTYPES FROM PUTZMEISTER.

AutoPouring – automated surface concrete placement. Here, the distribution boom of the truck-mounted concrete pump moves autonomously along a pre-planned path. The operator monitors the process, authorizes the movement, and continues to control the concrete output. In special cases, switching between automated and manual modes is just a push of a button away.

AutoPouring over Edge – future-proof hardware for complex control tasks. AutoPouring is a pure software product, compatible with Putzmeister standard machines equipped with iBC + Ergonic Edge. The new Ergonic Edge handles the complex automation tasks and transmits the path to the Ergonic 3 control system. This ensures that digital processes, automation and control are sensibly separated.

Digital Material Supervision – real-time concrete temperature monitoring. Concrete at the wrong temperature leads to clumping, poses a risk of quality defects and must not be used if it falls outside the standard range. This makes real-time information on concrete temperature all the more important; this data is measured at the hopper and placing boom and displayed on a dashboard.

ConcreteVision – Sensor-assisted concrete placement. As part of a master's thesis, research is being conducted into sensor-based methods for measuring the surface, with a view to automatically regulating the volume of concrete. This will enable the machine to coordinate movement and pumping capacity in future to achieve a particularly smooth finish.

The fact that we were able to successfully present four new innovations to the public is down to the hard work of the entire project team and all our colleagues involved in the preparation, planning and execution. We would also like to thank our partner ZECH for their interest, their cooperation and the opportunity to use such a significant construction site for the live demonstration.



PUTZMEISTER SUBSIDIARY INSTATIQ IS FOCUSING ON ROBOTICS

WHEN THE CONCRETE WALL COMES OUT OF THE PRINTER

REGIONAL ECONOMY

With a new 3D concrete printing process, the Putzmeister Group spin-off aims to advance the use of this technology in building construction. Its effectiveness on an industrial scale was impressively demonstrated during the construction of an apartment building near Stuttgart.



The automated 3D concrete printing robot applies the concrete layer by layer

Aichtal/Stuttgart. Moving forward at a speed of up to ten centimetres per second, the computer-controlled robotic arm applies a layer of concrete just under 20 centimetres thick onto the one below with millimetre precision. The boom of the mobile 3D concrete printer has a reach of 26 metres. On the construction site in the Neugreuth district of Metzingen, it is being used to print the top floor of a four-storey apartment block. With this project, the company is taking its 3D concrete printing process into a new dimension, says Markus Frasch, managing director of Instatq. The young company – a spin-off from the Putzmeister Group – has made it its mission to advance 3D concrete printing for the wider market.

Putzmeister, the concrete pump manufacturer based in Aichtal, has been working on printing buildings since 2016, reports Frasch. At the time, there was a research project in collaboration with the University of Dresden, which met with a great response at the Bauma construction machinery trade fair in Munich and won an innovation award. In 2022, the Instatq P1 concrete printer was also unveiled as a prototype at Bauma, and has now been put to use in Metzingen. At the time, it was still known as Karlos.

At the end of 2023, this division was spun off into a separate company with a “start-up character”, as Frasch put it. Putzmeister develops and sells machinery, whilst Instatq sells printed walls, explains the managing director. Using proprietary software, the digital 3D model of the structure is converted into load-bearing walls on site. The process is highly efficient as it eliminates the need for time-consuming scaffolding and formwork. The mobile 3D concrete printer sets new standards in terms of flexibility and range. “Our target market is apartment blocks and terraced houses, as well as commercial and industrial projects of up to four storeys,” says Frasch.

The first building was printed in November 2023 in collaboration with the construction firm Züblin – a small industrial hall on the >>



Züblin site in Stuttgart-Weilimdorf. “The main aim there was to obtain planning permission,” reports Markus Fräsch. After all, the printed layers must, of course, meet all structural requirements.



INDUSTRIAL-SCALE 3D CONCRETE PRINTING

Other projects last year included a detached house in Ammeltshofen, Bavaria, which is used as a clubhouse, and a block of flats in Vöhringen. This building, comprising six residential units, was printed in just under seven days. This year saw, among other things, an apartment block with five residential units in Illertissen, the printing of a basement, and the project currently underway in Metzingen this August. Next on the agenda are a commercial property with ~1,500 m² of printed walls – currently the largest 3D concrete printing project in Europe – as well as the new headquarters of an IT company in Austria and a supermarket in the northern Black Forest.

“By using robotics and end-to-end digital planning and implementation, we aim to boost productivity in the construction industry,” says Fräsch. Among the challenges are an ever-worsening shortage of skilled workers, reducing CO₂ emissions during concrete production, as well as costs and speed. In the Metzingen project, for example, printing was carried out using a concrete mix that produces around 20 % fewer CO₂ emissions than traditional limestone masonry. Because the walls are very stable, material consumption is lower as they can be built thinner. Construction workers, in turn, benefit from better working conditions with less dust and noise. And last but not least, the process represents a step towards the consistent digitalisation of the construction process. “We hope this will make the profession more attractive again,” says Fräsch. >>

HIGH PRECISION ON THE CONSTRUCTION SITE

There are now four of these mobile 3D concrete printers, manufactured by Putzmeister. Peter Mögle, who is responsible for development at the concrete pump manufacturer, explains just how much development work has gone into them. The major challenge was to automate the control of a 26-metre-long robotic arm so that the concrete layer is applied with millimetre precision at the tip of the boom, whilst the robotic arm is not permanently installed but stands on a transporter, and all this on a construction site with uneven ground. “From a developer’s perspective, it’s like Formula One in motor racing,” says Mögle.

InstatIQ is based in the Fasanenhof district of Stuttgart. It employs 18 people. Managing Director Fräsch comes from Putzmeister himself; the 36-year-old was head of product management there. At Putzmeister itself, there are a further 20 or so employees working on the project as part of Peter Mögle’s team and collaborating with their colleagues at InstatIQ. “What we’re doing in 3D printing can also be applied to our other concrete pumps, for example in terms of automation and increasing efficiency,” says Mögle.

 **INSTATI**Q



INSTATIQ.COM



JOINT VENTURE WITH ZÜBLIN

As part of the Metzingen project, Instatq and the construction company Züblin, part of the STRABAG Group, announced that they would be offering their 3D concrete printing services jointly in future. Through the joint venture Nelcon – Next Level Construction – Züblin and INSTATIQ are offering 3D concrete printing services in German-speaking countries. This underscores the practical relevance of the technology.

Frasch reports that Instatq's further considerations are moving towards integrated construction. Potential is seen, for example, in the printing of monolithic walls made from a single material that do not require additional insulation. Similarly, openings for building services could be integrated during the printing process itself. This would eliminate the need to cut out slots and openings for cables and pipes at a later stage: "These are things we are working on and will validate in upcoming projects. The aim is to significantly reduce construction time and manual labour throughout the entire project," says Markus Frasch.

THE CONSTRUCTION PROJECT IN METZINGEN

In the Neugreuth district, three apartment blocks comprising 44 residential units are being built on a site covering around 3,000 square metres. Two storeys of a four-storey building were printed directly on site.

Florian Bertz, Head of the Technical Department at the customer, GWG Reutlingen, is quoted in a press release as saying: "As a customer, we see our role not only in erecting buildings, but also in creating spaces for innovation."

The aim of the 3D concrete printing project was to deliberately test alternative construction methods. Close collaboration between the customer, the structural engineering firm, the construction contractor, the concrete supplier and INSTATIQ was also crucial to the success of this project.





THE WORLD'S FIRST FULLY ELECTRIC TRUCK-MOUNTED CONCRETE PUMP: THE iONTRON eBSF 42-5

IN SERVICE ON A VOLVO FFM ELECTRIC 8X4

iONTRON
THE FUTURE. ZERO EMISSION.



6:30 am in Uppsala, Sweden.

Swerock's new iONTRON eBSF drives quietly onto the construction site in a residential area. Only the gravel crunches beneath the wheels and a faint hum from the electric motor can be heard. The eBSF 42-5 is the world's first fully electric truck-mounted concrete pump with a 42-metre placing boom. Its first job on site today is the foundation slab for a new nursery. Adam Malmberg, the pump operator from Swerock, is delighted with the new machine. "I was previously assigned to a Putzmeister BSF 20-4 truck-mounted concrete pump; the new 42-metre model runs beautifully quietly and smoothly." He drove just under 50 kilometres from

his base in Rosersberg, north of Stockholm, to the construction site. The journey used 18 % of the battery charge. A power distribution unit has been set up on site, so he can charge the batteries at 22 kW whilst he works.

Putzmeister calls this system 'Work while charge'. To achieve this, engineers from Putzmeister and the Volvo Group had to put their heads together; for the Volvo FM Electric 8x4 rigid Tridem e-truck, this is a state it doesn't actually experience. It's either driving or being charged. As soon as Adam sets up the machine, the first concrete mixers arrive. Setting up the >>



Putzmeister

HOME

PUTZMEISTER WORLD

PEACE AND QUIET IN THE RESIDENTIAL AREA

outriggers, moving the distribution boom and, of course, pumping the concrete – all fully electric. For the Putzmeister and Volvo Group engineers on site, who will be overseeing this first operation, a whole new range of sounds suddenly becomes audible. The hydraulic switching of the main pump and the flow of concrete through the pipeline – sounds that are often drowned out by the diesel engine in diesel-powered concrete pumps. The Volvo delivers 220 kW of power, enabling the built-in .15H iLS concrete pump to deliver up to a maximum of 150 m³/h of concrete. That much isn't needed today. Adam is pumping the floor slab today at a rate of up to 35 m².

The concrete team is also delighted with the quiet atmosphere on the construction site. According to the hose operator, the next step would be for the truck mixers to run on electricity too. But Putzmeister offers a solution for this as well, in the form of the eMixer P9, a fully electric truck mixer with a 9 m³ mixing drum. After 100 m³ of C30/37 concrete, the eBSF has successfully passed its baptism of fire and is returning to base with a battery charge (SoC) of just under 30 %.



From left to right:

Niclas Johnson – Volvo, Hans Orest – Swerock, Per Hasselberg – Volvo, Angelica Bohlin – Swerock & PEAB Asfalt, Richard Karlsson – PM Nordic



IONTRON
THE FUTURE. ZERO EMISSION.



Putzmeister

HOME

PUTZMEISTER WORLD

HORB B 32 HIGH BRIDGE

HORB / NECKAR



The Horb viaduct is one of the pilot projects in the state of Baden-Württemberg that is being implemented using the digital method known as Building Information Modelling (BIM).



CONCRETE MIX DESIGN

Compressive strength	C50/60
Maximum particle size	0 – 16 mm
Consistency class	F4
Spread	57 cm
Additives	FM PowerFlow evo 501 MC Construction Chemicals
0 – 2 mm	1860 kg
2 – 8 mm	1400 kg
8 – 16 mm	1700 kg
Cement	CEMIII/B42,5 1112 kg
Water	305 kg
ZM	11.18 kg

PUTZMEISTER DELIVERY CONTENTS

1x BSF 67-5 PM
1x BSF 56-5 BPU (Stand-By)
1x BSF 24-4 BPS (Stand-By)
2x Boom Makina BHD18 circular distributors

OPERATING PARAMETERS

Ground-breaking ceremony	02.11.2018
Planned completion date	2026
Opening to traffic	2028
Bridge length	667 m
Bridge deck height	70 m
Maximum height of the bridge pylons	80 m
Costs (planned)	167 Mio. Euro



HOCHBRUECKE-HORB.DE



Putzmeister

HOME

PUTZMEISTER WORLD

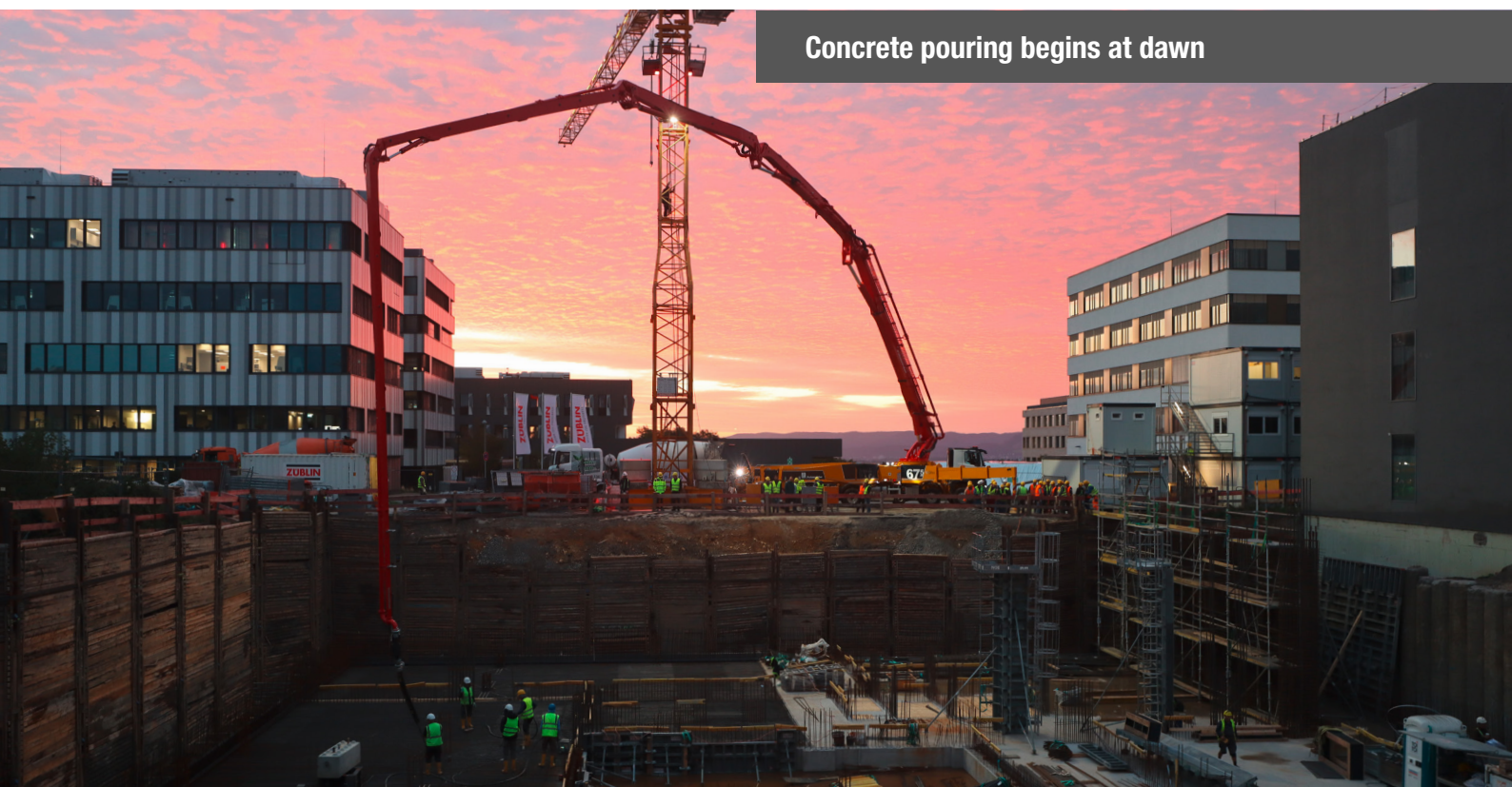
THE NEW PUTZMEISTER BSF 67-5 LARGE-BOOM PUMP IS PUMPING 500 M³ OF FLOOR SLAB

The new BSF 67-5 truck-mounted concrete pump is the largest model in Putzmeister's product range.

At bauma, the world's largest construction machinery trade fair in Munich, Putzmeister unveiled the BSF 67-5 in April 2025. The machine received a very positive response, with many purchase contracts already signed at the trade fair.

However, work continues following the presentation: long-term and functional tests have been carried out, the design is being optimised for series production, and the software for controlling the placing boom (Intelligent Boom Control iBC) and the outriggers (Intelligent Setup Control iSC) has been programmed and optimised. In addition, of course, for the markets in which the BSF 67-5 is to be sold, the suitable truck chassis are being tested in conjunction with the undercarriage. Naturally, the necessary production documentation must also be drawn up for new machines. And the machine must be tested in real-world construction site conditions. >>

Concrete pouring begins at dawn

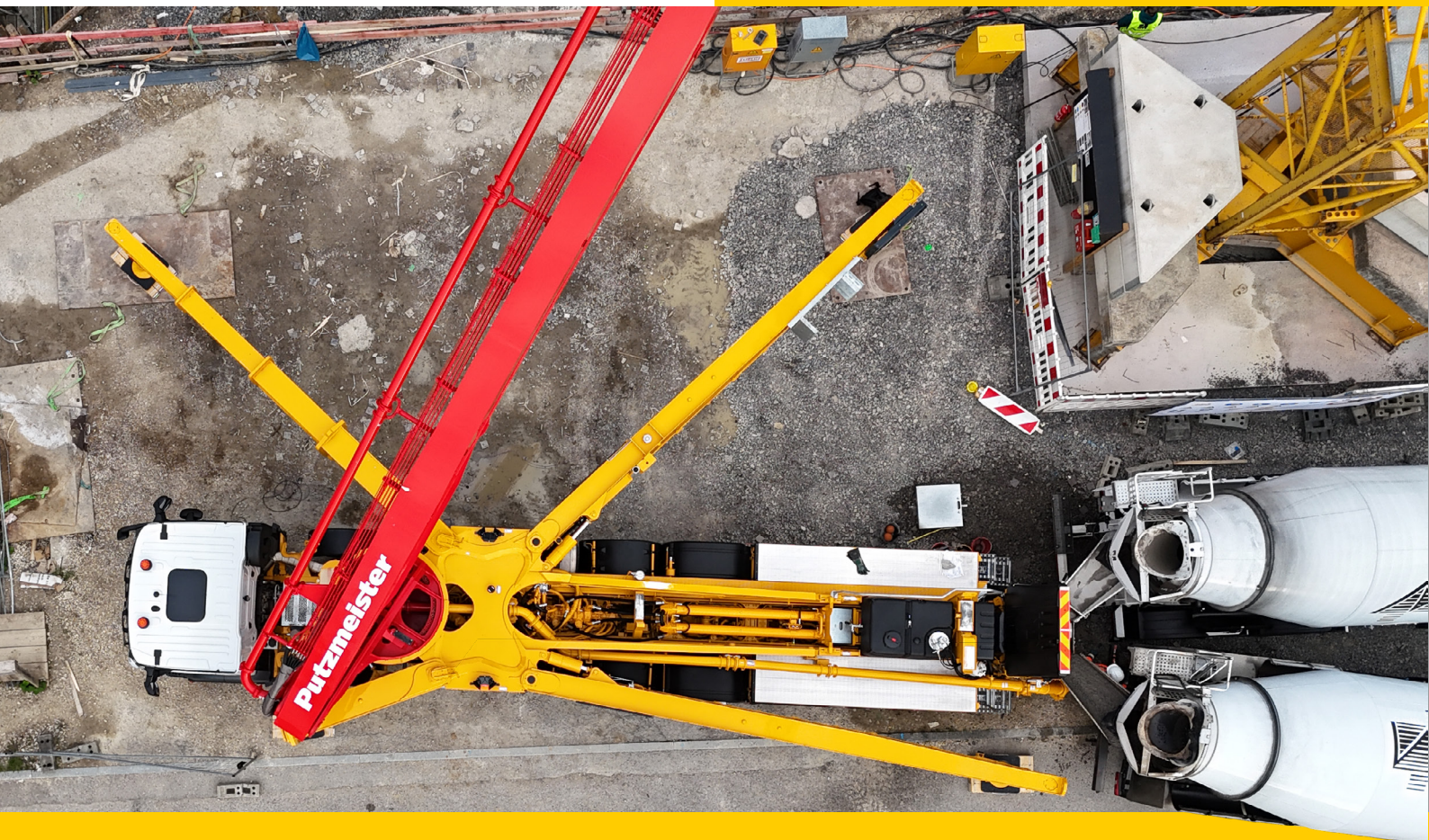




A large-scale concrete pour for a floor slab recently took place in Tübingen, requiring 500 m³ of concrete to be pumped in a short space of time – a typical job for large-reach pumps. Space on site was tight, as the access road to the industrial estate could not be blocked. This also provided an opportunity to test the narrow-base support intelligent Setup Control (ISC). Work began at 6 am. The concrete supply was optimal; for the most part, several truck mixers were on standby and were able to feed concrete into the hopper in parallel. With an average output of 100 m³ per hour, the BSF 67-5 performed excellently on this test site. >>



The placing boom's horizontal reach of over 60 metres was necessary to reach all points within the 12-metre-deep excavation pit.



Thanks to ISC, the machine could be positioned very narrowly, leaving the access road to the industrial estate clear. To supply the BSF 67-5 with a total of 500 m³ of concrete, two truck mixers were often at the pump at the same time.



BSF 67-5: CONTINUOUS DEVELOPMENT SINCE BAUMA 2025

- Feedback from production, assembly, testing, site deployments and discussions with customers has been incorporated.
- Many improvements to speed up series production have been implemented.
- Further features aimed at enhancing user-friendliness have been tested and implemented.
- Tests on service life, functional validation, etc. have been carried out.
- iBC has been and continues to be implemented and optimised.
- Several test sites have been successfully completed.
- Extension of the platform to special chassis for e.g. France, the Middle East or Australia
- The BSF 65-6 was developed in parallel with the BSF 67-5.

ABOUT THE PUTZMEISTER GROUP

The Putzmeister Group develops and manufactures high-quality machinery in the fields of concrete pumping, truck-mounted concrete pumps, stationary concrete pumps, placing booms and accessories, plant engineering, pipe conveyance of industrial viscous materials, concrete spraying and transport in tunnels and underground, mortar machines, plastering machines, screed conveyors, injection and special applications. Its market sectors include the construction industry, mining and tunnelling, large-scale industrial projects, power stations and sewage treatment plants, as well as waste incineration plants worldwide. The company is headquartered in Aichtal, Germany. With approximately 4,000 employees, the company generated turnover of around 1 billion euros in the 2024 financial year.



Putzmeister

HOME

PUTZMEISTER WORLD

NEW CO₂-CALCULATOR FROM PUTZMEISTER

Using Putzmeister's CO₂ calculator, customers can assess and compare the environmental and economic impacts of electric machines against conventional diesel-powered equipment.

Taking into account real-world operating parameters such as electricity consumption, operating hours, energy prices and emission factors, the tool transparently displays both annual and hourly CO₂ emissions, as well as the actual energy and operating costs for diesel and electric machines.

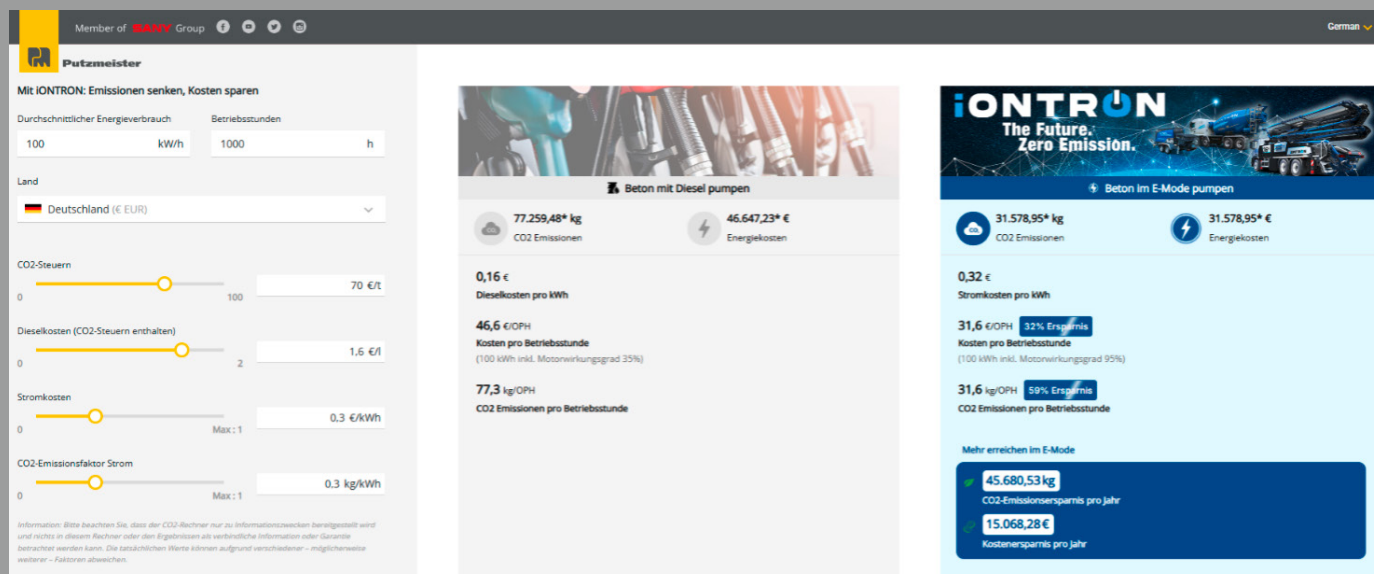
Customers can input regional data such as diesel and electricity prices as well as CO₂ taxes and apply country-specific emission factors to obtain tailored and accurate results. This powerful tool supports informed

decision-making for those seeking sustainability and cost-efficiency, and provides quantifiable evidence to back up claims. Furthermore, it enables reliable CO₂ reporting, enhances customers' market differentiation and strengthens their commitment to sustainability.

Putzmeister's new CO₂ calculator is available in German and English on the website.



CO2.PUTZMEISTER.COM





Putzmeister

HOME

PUTZMEISTER WORLD

KATHLEEN VALLEY

PIONEERING AUSTRALIA'S FIRST UNDERGROUND LITHIUM MINE WITH PUTZMEISTER TECHNOLOGY

Liontown Resources' Kathleen Valley Lithium Operation in Western Australia is setting a new benchmark in mining innovation and sustainability, thanks to cutting-edge technology and equipment from Putzmeister.

Kathleen Valley, Australia's largest underground lithium mine, has set a new benchmark in mining operations with the construction of the country's largest paste plant. Located in a remote region of Western Australia, the mine faced unique challenges that required innovative solutions. By choosing Putzmeister as their trusted partner, Liontown Resources ensured not only operational excellence but also long-term sustainability and reliability at Kathleen Valley.



A game-changing paste plant

At the heart of the Kathleen Valley Operation is Australia's largest paste plant, a facility designed to produce up to 320 m³/h of fine-grained, pumpable paste using two processing lines. Construction of the plant began in December 2023, with commissioning slated for November 2024. The plant's innovative design allows for a maximum delivery pressure of 100 bar, pumping paste over distances of up to 2,000 meters and depths of up to 600 meters. >>



The paste plant is a cornerstone of the mine's operations, enabling the efficient and sustainable backfilling of underground voids with cemented tailings. With a dry solids content of 75 % and a maximum particle size of 300 µm, the paste is engineered for optimal performance. The plant is designed to operate 24/7, 365 days a year, ensuring uninterrupted support for mining activities.

Sustainability at the core

Sustainability is a key focus at Kathleen Valley. The paste plant incorporates an internal water recovery system, reducing water consumption and minimizing environmental impact. Additionally, the use of refrigerant chillers instead of traditional evaporative cooling systems underscores the project's commitment to responsible resource management.

PUTZMEISTER: THE TECHNOLOGY BEHIND THE SUCCESS

The decision to partner with Putzmeister was driven by the company's reputation for reliability, innovation, and after-sales support. The Putzmeister Constant Flow system (PCF), a key feature of the plant's design, ensures smooth operation by addressing pressure fluctuations. This not only reduces noise and pipeline degradation but also enhances overall system efficiency.

At the core of the paste plant are two Putzmeister double piston pumps HSP 25150 HP with PCF, supported by two hydraulic power units. These pumps are designed to handle the demanding requirements of the operation, delivering consistent performance under high pressure. The retrofittable sound protection hood further enhances the system by reducing noise levels, a critical factor in maintaining a safe and comfortable working environment. >>





Overcoming challenges in a remote location

Operating in a remote area presents unique challenges, from accessibility to maintenance. Putzmeister's established dealer network in Australia has been instrumental in ensuring reliable support and after-sales service. This partnership, covered in Australia by Beasley's Hydraulic Services, has given Lontown's team at Kathleen Valley the confidence to operate at peak efficiency, knowing that expert support is always within reach.

A MODEL FOR THE FUTURE

The success of the Kathleen Valley Lithium Operation is a shining example of how advanced technology and sustainable practices can transform the mining industry. By leveraging Putzmeister's innovative solutions, the project has not only achieved operational excellence but also set a new standard for environmental responsibility.

As Australia's first underground lithium mine, Kathleen Valley is more than just a mining operation — it's a blueprint for the future of sustainable mining. With Putzmeister as a trusted partner, the project is poised to make a lasting impact on the industry and the environment.

Strong relationship started during planning phase

Throughout the design, installation, and commissioning phases of the project, Beasley's played a pivotal role. Company GR Engineering Services Limited mentioned that they have worked with Beasley's for over a year while designing, installing and commissioning the two Putzmeister pumps for Lontown. Their expertise was invaluable in determining the final layout and access requirements for operation and maintenance. Beasley's was a key contact during the design phase and provided on-site support during construction verification and commissioning. Their professionalism, clear communication, and attention to detail ensured the project ran smoothly, even at critical times.

"I would not hesitate to recommend both the Putzmeister pump and the services of Beasley's for similar applications. Their consistent professionalism and collaborative approach were instrumental in the successful delivery of this project."

Cameron Dowson, Senior Mechanical Engineer at GR Engineering Services Limited.



Putzmeister

HOME

PUTZMEISTER WORLD

FROM MAMMOTH TO COMPACT:

TWO EXTREMES IN THE PUTZMEISTER KOS RANGE OF PISTON PUMPS

The mammoth pump for the mining industry

The KOS 25200 is ideally suited to high outputs, such as those typically required for backfilling mine workings. Thanks to the large diameter of the S-tube, it is highly tolerant of foreign objects in the pumped material. Its design features a low number of wear parts and long maintenance intervals, which is advantageous in areas with limited infrastructure.

The compact solution for sensitive applications

Thanks to its compact design, the KOS 730 delivers consistent outputs and long maintenance intervals. It is also designed for 24/7 continuous operation.

The smallest KOS is primarily used in areas where organic materials, such as sewage sludge or hazardous waste, are transported to an incinerator. The closed and low-maintenance system is a major advantage in these applications.

Two pumps, one promise

Whether in mining environments handling inorganic materials or in industrial settings dealing with organic substances – both pumps deliver on the same promise: maximum reliability, even under extreme conditions. The technology delivers on its promise – in every size. A direct comparison of the two extreme models demonstrates not only the technical range but also the potential of a proven technology that can be precisely tailored to its specific task.

KOS piston pumps are among the most robust and efficient positive displacement pumps used in industrial applications. The KOS series was developed specifically for the conveyance of highly viscous slurries (solids). But how far can this technology be scaled? A direct comparison between the world's largest S-tube piston pump and the smallest S-tube piston pump impressively demonstrates just how versatile this principle is.



EXAMPLES OF USE:

KOS 25200 Mining, China:

Backfilling following coal mining. The material is pumped over a distance of 5,000 m and a height difference of 400 m. A 15,000-litre jumbo hopper ensures a constant supply of material to the pump. The built-in level sensor in the jumbo hopper sends a signal to the mixing unit if the fill level is exceeded or falls below the required level, or stops the pump.

KOS 730 ATEX, hazardous waste, Switzerland:

A typical application for a KOS 730 is the conveyance of pasty hazardous waste. To this end, the pump can be equipped to comply with ATEX regulations for explosion protection. The existing KOS 1030, dating from 1994, was to be replaced by a new pump. For this project, we are offering not just a new replacement pump, but a complete, modern pumping system. With the KOS 730, we are providing state-of-the-art technology.

The slurry pump is designed for use in ATEX-Zone II 2G Ex h IIB T4 Gb and will be installed accordingly.



SAFE SET-UP IN THE TIGHTEST OF SPACES INTUITIVE REACH ASSISTANCE FOR EVERY CONSTRUCTION SITE



In the concrete pumping industry, safety and efficiency are top priorities for every operator. However, balancing these demands can be challenging, especially when facing tight timelines, site constraints and other pressures on the job.

That's why YARD 1 relies on Putzmeister equipment. Operating concrete pumping fleets across Illinois, Indiana, Wisconsin and Iowa, the company is committed to delivering safe, high-quality service every day. In the summer of 2024, YARD 1 added two Putzmeister BSF 47-5 truck-mounted concrete boom pumps to its fleet in Illinois. Both pumps came equipped with intelligent Setup Assistant (iSA) and Full Flex pedestals, Putzmeister's new outrigger support system that significantly improves machine reach and flexibility. Together, iSA and Full Flex combine industry-leading engineering and experience to provide the most intuitive reach assistance available — safely and efficiently.

"I've always preferred Putzmeister equipment, but these technologies were definitely a selling point when we were looking at pumps. They've been a game-changer on all of our job sites," said Jeff Humbert, superintendent at YARD 1.

Staying on the safe side

The iSA control system seamlessly provides a detailed overview of how far the boom can reach. The operator simply sets up the machine according to the conditions of the jobsite and iSA automatically calculates the possible working range, quickly identifying "safe zones" before opening the boom. iSA significantly improves machine reach and flexibility — with up to 30 % bigger working ranges on both sides when short-rigged.

Now with iSA, the control system also monitors the machine level. If the outriggers are repositioned in a way that can no longer properly support the boom, the machine will stop the lift cylinder movement and a warning will be displayed on the screen.

Full Flex pedestals offer infinitely variable support positions on most models for telescopic and slewing legs, ensuring safe setup on even the most restrictive job sites. With the Full Flex base structure, any leg position between zero and full support can be utilized. Plus, setup is intuitive and straightforward. The machine operator adjusts the legs depending on the space available and the machine calculates the rest.

Humbert said it's like having an extra set of eyes, allowing his team to safely maximize every foot on the jobsite. "Safety is everything in our industry, and these technologies benefit us greatly. iSA and the Full Flex pedestals take the guesswork out of how far we can rig the boom," he explained. >>



Addressing challenges for every job

One of the biggest challenges YARD 1 faces is working in tight spaces in the busy city of Chicago, where they might have to set up in one lane of city road with traffic rushing past. With iSA and Full Flex, they can maximize the use of their pumps, no matter the location or size of the job. “iSA and Full Flex let us use a larger boom for maximum reach, even in tight spots,” said Humbert.

YARD 1 has used these controls on many well-known landmarks in the city. The company had to set up the pump in a narrow 12-foot alley, then reach 55 feet over a building to pour mechanical pads. “These tools allow me to maximize boom size in a tight setup without dragging hoses around. We can use them to get the boom over the building and eliminate the pipeline for the contractor because we can pour everything off the boom,” said Humbert.

They’ve also used the technologies outside the city, such as in Batavia, Illinois, at the new Fermilab Welcome and Access Center, a particle physics and accelerator laboratory. iSA and Full Flex allows Humbert’s crew to work around cranes and other equipment on the job site. “It’s a big benefit because these technologies give us maximum reach and a pipeline to contractors’ jobs,” said Humbert.

What’s more, operators love using the systems because they’re intuitive and make every hour on the job site more efficient and productive. “Our guys use these technologies every day. They’ve really taken them and run with them. They’re straightforward and great for short-rigging to know how far to send the boom,” said Humbert.

With these capabilities, YARD 1 can address the difficult setups they see every day on a variety of projects. “We’ve always accommodated our customers and figured out a way to make things work. But iSA and Full Flex let us take a more creative approach to pumping,” said Humbert.

He explained that the company specializes in finding solutions to get the job done when others can’t. Having these capabilities allows the company to bid on a wider variety of jobs with the confidence they can manage any challenges that might arise. “Now we can look at jobs with a tighter fit and know we can accommodate them. When we know we need to have a long reach, it helps us set up on a small footprint for our boom,” said Humbert.



The machine operator can adjust the outrigger legs in the space available and the machine then calculates the working range automatically.

BUILDING A STRONG RELATIONSHIP

Over the years, YARD 1 has purchased several Putzmeister pumps, and operators find the machines easy to use. “They make a great machine with superior technology. Our operators love operating these machines,” he said.

Humbert believes iSA and Full Flex is the future of the concrete pumping industry. “I hope these features are eventually put on every pump. They take the guesswork out of setting up with short-rig obstacles,” he said.

Please note: iSA is only available for machines in non-CE markets.



Putzmeister

HOME

PUTZMEISTER WORLD

WETKRET 2 NARROW VEIN

THE FIRST DUAL-HEAD SHOTCRETE MACHINE
FOR NARROW TUNNELS AND TIGHT GALLERIES



New Putzmeister Wetkret 2 Narrow Vein shotcrete system, the first shotcrete robot designed for dual operation in narrow cavities.

Putzmeister Underground, Putzmeister's division specialising in underground equipment, has unveiled its latest innovation in mechanised concrete spraying technology: the Wetkret 2 Narrow Vein. This shotcrete machine was specifically developed for use in confined spaces measuring up to 2.5 x 2.5 m and combines the most advanced pump technology with Putzmeister's many years of experience. It thus offers a compact, safe and highly efficient solution for demanding underground applications. Wetkret 2 Narrow Vein enables the mechanised application of shotcrete in narrow tunnels, thereby significantly improving workplace safety and reducing staff. >>





Putzmeister

HOME

PUTZMEISTER WORLD



State-of-the-art technology for narrow tunnels

Putzmeister is recognised worldwide as a leading manufacturer of concrete pumps; innovation and development in this field form the foundation of the business and set the standard in the industry. At the heart of the Wetkret 2 Narrow Vein lies a combination of state-of-the-art pump technology and the OPS control system, resulting in reduced pulsations, easy maintenance and high compatibility with other units in the Wetkret series. The theoretical maximum concrete output reaches 13 m³/h at 40 bar, making it an ideal solution for applications in tunnels with limited dimensions. The unit can be connected directly to the mine's power supply or operated using its powerful diesel engine (Dual Drive).

Furthermore, like other units in Putzmeister's Wetkret series, it is equipped with a precise additive synchronisation system, in which the concrete admixture is precisely synchronised with the concrete output. The remote-controlled telescopic spray arm has a vertical reach of up to 7.5 m.

The articulated design with compact dimensions (7360 x 1409 x 2295 mm) ensures excellent manoeuvrability, combined with the 106 kW diesel engine (or 55.4 kW for Stage V) and a drive system featuring individual motors on each wheel. An anti-slip system can be fitted as an option to improve performance on uneven terrain or where there is poor traction. The layout of the components allows for easy and safe access to critical elements, such as the control panel for the dual braking system, which separates high and low voltage, the FOPS/ROPS-certified cab with a plug-in design, the batteries and the hydraulic oil filters. In addition, the machine features an integrated cleaning system that ensures durability.

Options based on Putzmeister Underground's experience

These include a wide range of optional configurations to adapt the equipment to the specific requirements of each job. These include the use of biodegradable hydraulic oil, highly efficient filter systems with vented dryers, automatic lubrication during travel, direction indicators, transformers for power cuts, and various options for tyres, driver's seat and cleaning pump.

ABOUT PUTZMEISTER UNDERGROUND

The Putzmeister Group's Underground division, headquartered in Madrid (Spain), is a leader in the development and manufacture of concrete spraying equipment and associated mixers, and can look back on a long track record of success in the construction and mining industries. Our mission is to offer innovative, high-quality solutions that exceed our customers' expectations.

For further information, please visit our website or contact us at contacto@putzmeister.com or +34 91 428 8100.



Putzmeister

HOME

PUTZMEISTER WORLD

AUSTRALIA'S LARGEST RENEWABLE ENERGY PROJECT: SNOWY 2.0

Deep beneath the Snowy Mountains in Kosciuszko National Park, New South Wales, a transformative infrastructure project is underway to reshape Australia's energy future for generations to come.

A landmark in renewable energy

The Snowy 2.0 project is one of the most ambitious renewable energy infrastructure developments in the Southern Hemisphere. It's designed to deliver 2,200 MW of dispatchable power and 350,000 MWh of energy storage to the national electricity market – enough to power three million homes for a week!

This pumped hydro expansion builds on the legacy of the original Snowy Scheme, a post-war engineering marvel that helped electrify and irrigate much of southeastern Australia.



Located near Mount Kosciuszko, Australia's highest peak, Snowy 2.0 will connect the Tantangara and Talbingo Reservoirs via 27 km of tunnels and a new underground power station.

Closed-loop energy storage

Designed to enhance grid stability and maximise the efficiency of intermittent renewable sources like solar and wind, the closed-loop system stores energy by pumping water uphill when electricity demand is low and renewable energy production high. >>



Then, when demand spikes, the water is released downhill to generate power, delivering fast-start electricity and critical backup. This is essential for ensuring grid reliability as Australia accelerates its transition to renewables, and will enable significant new investment in clean energy, helping to decarbonise the economy and meet national climate commitments.

Unlike batteries, which typically store energy for just 1 – 4 hours, Snowy 2.0 will be capable of operating continuously for over 7 days before needing to be recharged, offering a far more resilient solution. With a 100-year lifespan, the project is set to provide enduring infrastructure to support Australia's energy future for many generations to come.



PUTZMEISTER: ON THE GROUND AND UNDERGROUND

At Snowy 2.0, where scale and complexity push engineering boundaries, Putzmeister Oceania is delivering more than just machinery, we're delivering solutions. As the principal contractor for Snowy Hydro Limited, the Future Generation Joint Venture (FGJV) is self-performing all concrete pumping activities. To meet the project's demanding requirements, they've relied on Putzmeister's expertise and full-time onsite support. Our team, including two dedicated specialists, provides hands-on training, supervision, and technical assistance across shotcrete applications, equipment maintenance, and concrete pumping operations.

Over the past few years, Putzmeister Oceania has supplied a diverse fleet of over 30 specialised machines to support Snowy 2.0's complex construction needs, with additional units still to be delivered as the project progresses. This includes, large high-pressure trailer pumps, mobile truck-mounted pumps, concrete placing booms, spider booms, crawler booms, shotcrete equipment as well as parts, hose and accessories.

Each machine has been carefully selected to meet the unique technical and logistical challenges of the project. Among these challenges are pumping concrete 250 metres vertically down the Marica Surge Shaft, as well as long distance pumping over 1 kilometre to reach deep within the tunnels.

The fleet includes multiple BSA 2110 HPD trailer pumps for high-output or long-distance pumping applications, as well as electric trailer pumps for more niche and general application tasks. While spider booms and crawler booms have played a critical role in supporting the early-stage structures prior to the installation of placing booms.

For ground stabilization and tunnel lining, Putzmeister's advanced shotcrete systems, including several SPM 500, SPM 4210, and Wetkret 5 units are all hard at work, ensuring structural integrity in some of the deepest and most complex underground environments ever undertaken in Australia. These machines operate around the clock, supported by our technical team to maintain peak performance under pressure. >>



Putzmeister

HOME

PUTZMEISTER WORLD

Local expertise, global strength

Putzmeister Oceania's strength lies in our ability to adapt globally proven technology to local conditions.

With service centres across Australia and a deep understanding of regional safety and regulatory requirements, we provide not just equipment, but end-to-end solutions. Our team of field technicians exemplifies our customer-first ethos, delivering expert support and building lasting

relationships. Putzmeister's presence at projects like Snowy 2.0 is a testament to our commitment to innovation, reliability, and partnership.

Looking ahead

Construction on Snowy 2.0 officially began in 2019, with full operations expected by the end of 2028. As the project advances, Putzmeister Oceania remains committed to supporting its success, through ongoing concrete equipment supply, technical expertise, and maintenance services to ensure seamless operations. It's a practical step toward realising our shared vision of affordability, resilience, and a cleaner future - together for tomorrow.

Snowy 2.0 is more than just an Australian milestone. It's a blueprint for how pumped hydro can complement solar and wind energy to create a resilient, low-carbon future. We extend our thanks to Future Generation JV, Snowy Hydro Limited, and all project partners for their trust in Putzmeister's equipment and expertise. Putzmeister is proud to be part of this legacy, contributing to a cleaner, more reliable energy future for Australia.



PUTZMEISTER HOLDING GMBH
FON. +49 (7127) 599-0
FAX +49 (7127) 599-520
WWW.PUTZMEISTER.COM

FOLLOW US:



Putzmeister