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Putzmeister is coming to bauma 2025 with a large iONTRON family

Work efficiently today with the iONTRON family – for a sustainable construction site tomorrow

Aichtal, February 2025 – Putzmeister's motto for bauma 2025 is 'Together for tomorrow'. And nothing embodies this attitude of the company better than the iONTRON product family, which benefits not only the environment but also the customers themselves, thanks to high efficiency at low operating costs. The first iONTRON hybrid machines have been in use since 2021. The technology is so sophisticated that Putzmeister – as a pioneer in electrification – is already offering future-proof solutions, no matter what challenges customers face. Among other things, the eagerly awaited new models in the iONTRON product family will be on display in Hall B6 from Monday 7 to Sunday 13 April.

Anyone who claims that the future lies in the electrification of construction machinery is only partly right. This is because iONTRON technology already makes it possible to work with minimal noise levels and extremely efficiently with up to zero CO₂ emissions. Putzmeister is once again living up to its pioneering role. Patrick Hildenbrand, Head of Portfolio Strategy at Putzmeister, explains why the company has been pushing the (further) development of its iONTRON family for years and has gained field experience with over 100 iONTRON machines since 2021: 'We are aware that the construction industry is responsible for around 30 percent of CO₂ emissions worldwide. That is why we are focusing our innovation strategy on sustainability, in particular the reduction of CO₂ and noise emissions – while maximising efficiency, of course.'

At bauma 2025, Putzmeister will be presenting the complete iONTRON portfolio with six new products as well as other fully electric machines such as the eMixer and the INSTATIQ 3D printer. It is important to Putzmeister to remain open to new technologies. Putzmeister works with all truck OEMs. 'Whether it's efficient, energy-saving diesel engines, fully electric construction machines or a combination with alternative drives such as CNG gas technology – we let the market decide which technology will ultimately prevail,' emphasises Hildenbrand. And that is precisely what 'Together for tomorrow' is intended to express.

'We are simply thinking very long term, always with the goal of CO₂ neutrality – and we clearly see our responsibility here as the number one in the electrified concrete value chain. At the same time, it is in line with our vision of making housing and infrastructure affordable and sustainable,' Hildenbrand continues.

With the Putzmeister eRoadmap to a sustainable future

With the iONTRON product family, Putzmeister is paving the way for environmentally friendly construction sites and also enables completely self-sufficient work, independent of external energy sources, depending on the construction site conditions. The company offers an efficient and sustainable solution with up to zero CO₂ emissions for almost every application. These iONTRON machines, among others, will be presented to the specialist audience at bauma 2025:

The entry-level model: M47-5 iONTRON Lite Hybrid

An iONTRON Lite model like the M47-5 on display is environmentally friendly and fuel-efficient thanks to its automatic start-stop system: the diesel engine switches off during idle phases, as in modern cars. An additional battery then powers the agitator to ensure that the concrete does not dry out; the battery also supplies power to the flushing water pump and the high-pressure cleaner. This system works autonomously with a battery capacity of 6 kWh. It is charged during the pumping process via the generator or the 230 V on-board battery charger. The 'Lite' is the ideal product for entering the field of electrified construction machines.

The anniversary machine: M24-4 iONTRON Hybrid 2.0 – high efficiency, low noise, up to zero CO₂

The M24-4 iONTRON Hybrid 2.0 is celebrating a special anniversary at bauma: it is the 100th of its kind! A truck-mounted concrete pump with a 15 iLS core pump that can be operated both with (construction site) electricity and conventionally via the truck engine using the hydraulic pump line. If necessary, the changeover can be made while pumping. No additional battery is required for electric operation, which increases the payload reserves and also saves operating costs. Above all, however, the iONTRON machine is characterised by the virtually silent and emission-free pumping process.

The machines have been in series production since 2021, and since then almost 100 iONTRON Hybrid truck-mounted concrete pumps have been in use worldwide. Thanks to close and trusting dialogue with customers, almost four years of field experience has been incorporated into the current further development. The result: an iONTRON Hybrid 2.0 that offers 15 to 40 per cent improved energy efficiency. This is achieved, among other things, by the optimised storage loading pump and the speed optimisation in combination with the intelligent Ergonic Output Control (EOC) system.

Mobile charging station: iONTRON GridXpress for self-sufficient work

iONTRON GridXpress, a powerful mobile charging station developed specifically for the power supply of construction machines, ensures full autonomy and flexibility in use. The biggest advantage: even with poor infrastructure on construction sites, sufficient power is available.

Thanks to its 128 kWh lithium-ion battery and various connection options (CEE plug, 125 A, and CCS2 fast charging, 120 kW), the GridXpress not only reliably supplies all iONTRON-Putzmeister products, but also other electrically powered machines and electric vehicles with energy, in some cases even with a performance-enhancing effect. With the Powerbank trailer, it is also possible to

reduce the total CO₂ emissions of a construction site operation to zero, depending on the local electricity mix.

The surprise guest: to be continued...

As a special highlight, Putzmeister, in cooperation with Volvo Trucks, will be presenting a unique electric solution for the concrete industry. This solution has been developed with a great deal of help and commitment from our long-standing Swedish Putzmeister dealer PM Nordic. Volvo and Putzmeister will reveal this secret on 7 April in Hall B6.

About the Putzmeister Group

The Putzmeister Group develops and produces machinery of high technological quality in the fields of concrete conveying, truck-mounted concrete pumps, stationary concrete pumps, placing booms and accessories, plant technology, conveying industrial high-density solids through pipes, concrete spraying and transport in tunnels and below ground, mortar machines, plastering machines, screed conveying, injection and specialist applications. Market segments are the construction industry, mining and tunnel construction, major industrial projects, power and sewage treatment plants as well as waste incineration plants worldwide.

The company is based in Aichtal, Germany. With over 4000 employees, the company achieved a turnover of 1 billion euros in the 2023 financial year.