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The next generation of the Putzmeister iONTRON electric mixer at bauma 2025

iONTRON Gen 2 electric mixer: 100% electric concrete transport – clean, quiet, comfortable

Aichtal, February 2025 – With its iONTRON product series, Putzmeister is a pioneer in the field of construction site electrification – and is paving the way for customers to achieve environmentally friendly construction sites. At this year's construction trade fair in Munich – from Monday, 7 April to Sunday, 13 April – the company will be presenting the second generation of the iONTRON electric mixer in Hall B6. Numerous machines of this type are already in use in many countries. Now the environmentally friendly electric mixer has become even more convenient and efficient.

With the iONTRON electric mixer, Putzmeister customers can travel to various construction sites at any time of the day or night, especially in urban areas. Depending on the local electricity mix, CO₂ emissions can be reduced to zero, while keeping noise levels to a minimum. However, it is not only a win for the environment, but also a real success from an economic point of view. By March 2025, Putzmeister's eMixers had already covered more than 2,900,000 km in 15 countries, successfully completed more than 200,000 jobs and delivered 1,290,000 m³ of concrete.

This is how e-mobility works in concrete transport: work during the day, charge at night

In urban use, a single battery charge of the iONTRON e-mixer is enough for a full working day, which corresponds to about five to six trips. This is made possible by advanced battery technology with a capacity of 350 kWh. On average, consumption is between 130 and 170 kWh per 100 km. If additional operations are required, the battery can be easily intermediately charged with up to 250 kW; for example, charging from 20 to 80 per cent takes only about 50 minutes.

The battery can be gently charged overnight at a DC charging station with ~40 kW at a 63A socket.

Generation 2 means combining the proven with the innovative

As before, the 8x4 axle configuration offers excellent driving dynamics with a gross vehicle weight of up to 38 t. The second-generation iONTRON electric mixer offers more comfort in terms of

driving behaviour: thanks to the air-sprung rear axle, the vehicle is more stable and quieter on the road. Drivers will be particularly impressed by the air-suspended cab, which has also become even more spacious and user-friendly than the first generation.

Enhanced safety with driver assistance systems

A working day is long and sometimes challenging – drivers can use all the support they can get. Driver assistance systems not only provide enhanced safety on the road, but also effectively take the strain off drivers. The SANY eTRUCK e435 8x4 is therefore equipped with the latest driver assistance system (ADAS) to meet the current GSR2 requirements, including: tyre pressure monitoring (TPMS), blind spot information system (BSIS), rear cross traffic alert system (REIS), manoeuvre information system (MOIS), lane departure warning system (LDWS), drowsiness detection alert system (DDAW) and intelligent speed assistance (ISA).

The special feature is the drive

The iONTRON eMixer is based on a SANY electric chassis and is 100 per cent electrically powered. No CO₂ is released during operation, neither when driving off nor – depending on the local electricity mix – when working on the construction site. The powerful 405 kW electric motor offers unparalleled torque and virtually silent driving. The noise level is only 57.3 dB at 50 km/h! This means that the eMixer can travel without restrictions – even where strict noise protection requirements apply. This offers a decisive competitive advantage when tendering or awarding contracts in urban areas.

Driving and mixing on a good basis, the Putzmeister P 9 G UL

The eMixer is based on the Putzmeister P 9 G UL truck mixer model. It combines a low dead weight with versatility and durability – and it offers various transport capacities. Its lightweight design reduces fuel consumption, tyre wear and operating costs. Durable components such as Hardox steel and optimised corrosion protection minimise downtime and increase service life. Innovative functions of the Ergonic® Mixer Control system, API integration and sensor technology enable efficient and digitalised processes. The truck mixer can be flexibly adapted and offers ease of use and cost-effective time savings thanks to features such as the automatic washing programme.

The P9G iONTRON eMixer at a glance

- Vehicle type: SANY e435 8X4
- Battery capacity: 350 kWh
- Range: ~8h operation in urban areas
- Night charging in mixing plants: up to 250 kW with CCS COMBO 2 charging gun
- Drum size: 9 m³
- Gross weight: 32 t – 38 t
- Payload: comparable to conventional truck mixers
- Comfort: rear axle with optional air suspension, air-suspended cab

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.