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Press release no.: 2042

Date: 10.02.2025
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Now in series production: the BSA 1005 iONTRON from Putzmeister at bauma 2025

100% electric, 100% self-sufficient, 100% flexible – BSA 1005 iONTRON

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 an environmentally friendly construction site. The battery-powered stationary concrete pump BSA 1005 iONTRON is one of the products in the series. A prototype of the pump was already on display at the last bauma. At this year's construction trade fair in Munich – from Monday, 7 April to Sunday, 13 April – the company will be presenting the series-produced machine, which has already proven itself in the field, in Hall B6.

Anyone looking for a stationary concrete pump that can be used efficiently in urban environments should not miss the BSA 1005 iONTRON at bauma 2025. This concrete pump is 100 per cent battery-powered and therefore produces zero CO₂ emissions – depending on the local electricity mix – and minimal noise. Customers do not have to compromise on performance, because the pump is so efficient that it is on a par with a comparable diesel-powered machine in terms of performance. In addition, the iONTRON BSA 1005 enables self-sufficient working – independent of external power sources and, of course, fossil fuels.

While the prototype was exhibited at bauma 2022, Putzmeister is already a few steps further this year: the series machine with full functionality can be seen.

Proven and innovative technology in a concrete pump

The good news first: the speed can also be adjusted on the electric motor of the iONTRON BSA 1005. This will please machine operators and owners alike. When the pump stops, the drive motor also switches off – this saves energy. The vibrator simply continues to run thanks to its own drive. With a delivery pressure of 55 bar and a delivery rate of almost 50 m³/h, the BSA 1005 iONTRON offers sufficient power for a wide range of applications – at a minimal noise level.

The battery-electric iONTRON concrete pump is part of the BSA 1000 family. This means that it is consistently based on this platform. Apart from the drive, identical parts have been installed, such

as the hydraulics, control system, frame, core pump and much more, including existing axle configurations (EU F8 / EU F80 / US / LACA).

Flexibility and reliability for a typical working day

The Putzmeister charging concept is so well thought out that sufficient energy is available: while the machine is pumping, the battery can be charged without any problems (keyword 'work while charge' or WWC for short), so that reliable power can be accessed throughout an entire working day – depending on the different parameters and conditions on the construction site.

The machine can be fully charged overnight at the station. The BSA 1005 iONTRON can be charged with a wide range of currents and plug types: charging with 220 V Schuko or 400 V-16 A CEE, with 400 V / 32 A at a CEE socket or when working with the Wallbox Type 2 charging pistol (as standard) with max. 22 kW (~3.5 h charging time) or with the mobile charger (optional).

Extensively tested in the field – with excellent feedback

Since August 2023, successful field tests have been carried out with two prototypes of the BSA 1005 iONTRON (EU and US versions). In Germany, Belgium, the Netherlands, Sweden, Canada, Texas and California, the machine has proven itself under sometimes adverse climatic conditions and on a wide variety of construction sites.

The feedback was consistently positive: for example, the machine operators were able to switch to the iONTRON BSA without any problems and there were no significant technical issues. According to the customers who tested the machine, the pumping behaviour and operation of the BSA 1005 iONTRON hardly differ at all from those of the diesel-powered BSAs of the 1000 series in direct comparison. The machine met all expectations in a wide range of applications, with different concrete qualities and delivery line lengths.

The BSA 1005 iONTRON – in series production since the end of 2024

To ensure that customers can rely on the BSA 1005 iONTRON, service personnel have been receiving intensive training since 2024. At the same time, Putzmeister started selling the series machine. Compared to the test machines, the battery has even become lighter by around 90 kg, while the net capacity has increased. For even more power, a mobile charger with various adapters is available.

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.