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Putzmeister presented the first truck-mounted concrete pump on an electric chassis at bauma

Premiere: the first fully electric iONTRON truck-mounted concrete pump with Volvo eTrucks

Aichtal, April 2025 – The Putzmeister iONTRON product family paves the way to an environmentally friendly construction site. To achieve this, it has been deliberately kept open to a range of technologies and is now even compatible with electric trucks from various manufacturers, as the company is demonstrating using a Volvo eTruck as an example. The pilot project, which has been running for about a year and a half, is the result of a collaboration between two OEMs and the Swedish Putzmeister customer Swerock. At bauma 2025, this unique cooperation was celebrated as a highlight of the concrete pump industry.

Putzmeister revealed a special surprise at bauma 2025. As is already well known, the company is a pioneer in construction site electrification with its iONTRON technology. Now the construction machine manufacturer is demonstrating that this technology can be combined with the eChassis of various manufacturers – and that the first electric truck-mounted concrete pump is on its way to conquering construction sites around the world.

The best of both worlds: Putzmeister iONTRON plus Volvo Truck

Two that go well together: the fully electric Volvo truck 'FM Battery-Electric 8x4 Tridem' and the iONTRON technology from Putzmeister. First, the hard facts: The truck on four axles with a total weight of 32 t consumes an average of 1.6 to 2.0 kWh per kilometre while driving. The vehicle's electric motors achieve a continuous output of 330 kW with a usable battery capacity of 250 kWh. A specially developed energy storage system provides a total of 360 kWh of power.

As with all electric vehicles, battery capacity is the limiting factor. However, the Putzmeister charging concept is so well thought out that it still reliably provides energy for a long working day. Not only does the truck have a quick-charging function, but the battery

can also be charged while the machine is pumping (keyword 'work while charge', or WWC for short). Of course, the advantages of the all-electric concrete pump depend on the different parameters and conditions on the construction site.

As far as the concrete pump is concerned, the iONTRON technology delivers the usual high output of a Putzmeister 15 iLS of up to 150 m³/h.

Good for the environment and for the balance sheet – emission-free transport and pumping

The environmentally friendly iONTRON technology strengthens the competitiveness of companies, in particular through better chances in tenders. In addition, it enables the claiming of state subsidies because it fulfils current and also future environmental requirements. It therefore contributes to achieving the ESG goals, especially in terms of sustainability.

A win-win situation – minimal noise level

The combination of iONTRON technology and electric trucks makes it possible to minimise noise emissions and thus noise, which is particularly advantageous for construction sites in urban and residential areas. Less noise also improves the working conditions of the machine operators and construction site personnel.

Lower operating costs with high efficiency

The use of electricity instead of fossil fuels reduces operating costs during operation. In addition, the combination of electric truck and iONTRON technology ensures optimised energy consumption, depending on the operating conditions. Last but not least, an electric drive requires much less maintenance than diesel generators.

Long range with maximum stability

Thanks to the 5-arm distributor boom in Roll-Z-folding (RZ), the M42-5 is suitable for a wide range of applications with a vertical reach of up to 41.6 metres and a horizontal reach of up to 37.3 metres. The quiet boom with Intelligent Boom Control (IBC) ensures precise and safe concrete distribution with minimal vibration – ideal for challenging concreting jobs.

Efficiency meets operating comfort – Ergonic® control system

The machine is equipped with the Ergonic® 3 control system and a proven, fuel-efficient Putzmeister 15 iLS hydraulic pump that can move a lot of concrete with a delivery rate of up to 150 m³/h and 83 bar pressure. Ergonic® 3 combines the proven functions of its predecessors and adds new, modern assistance systems and a fault management system to make work easier for machine operators.

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 viscous industrial materials through pipes, concrete spraying and transport in tunnels and underground, mortar machines, plastering machines, screed conveying, injection and specialist applications. Market segments include the construction industry, mining and tunneling, large industrial projects, power plants and sewage treatment plants, as well as waste incineration plants, all over the world.

The company is based in Aichtal. With around 4,000 employees, the company generated sales of around 1 billion euros in the 2023 financial year.

