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At bauma 2025, Putzmeister is presenting the Wetkret 4 – for efficiency in underground mining

Agile and productive – concrete spraying with Wetkret 4

Aichtal, February 2025 – At bauma 2025, Putzmeister is presenting the Wetkret 4, an ideal machine for underground mining. Not only because it meets the current Stage V exhaust emission standards, but also because of its compact chassis with a minimal turning circle and a spraying arm that enables precise, even concrete spraying. The Wetkret 4 Stage V can be seen in Hall B6 – from Monday, 7 to Sunday, 13 April.

The Wetkret 4 is the ideal machine for underground work and is equipped with an engine that meets the current Stage V exhaust emission standards. Its robust, compact chassis with a small turning circle is impressive, as is the concrete pump with a delivery rate of 20 m³/h and a spraying arm with an 8.5-metre range, which guarantees even distribution of the concrete. These are the best conditions for achieving a high concrete quality with precise layer thickness.

The Wetkret 4 also scores points with automatic additive synchronisation depending on the concrete delivery rate, a shift-free hydrostatic ICVD transmission without gear shifting, an integrated air compressor with an air flow of up to 9.3 m³/min, and optimal weight distribution to extend the service life of the concrete spraying system.

Stage V compliant and ready for use in many countries

The Wetkret 4 meets the current Stage V exhaust emission standards for environmentally friendly engines. This makes it easy to obtain approval within the EU, but also in the UK and other countries such as Finland, Norway, Liechtenstein, Switzerland, etc. The powerful engine, equipped with DOC-DPF-SCR technology, not only ensures better exhaust gas treatment, but also lower fuel consumption with optimised performance.

Perfectly suited to off-road use and manoeuvrable

The robust and compact chassis of the Wetkret 4, with heavy-duty axles and all-wheel drive, is designed for the demanding working conditions in underground mining. With a minimal turning circle and outstanding manoeuvrability, the Wetkret can be relied on to negotiate uneven terrain

safely. It can also cope with gradients of up to 35° with ease. When it is switched off for spraying, the hydraulically driven support legs ensure maximum stability.

Safety is our top priority

The Wetkret 4 is equipped with a FOPS/ROPS-certified driver's cab that offers safety in every situation. A rear-view camera with infrared function and monitor also contributes to this, ensuring the best all-round visibility, even in poor lighting conditions. It can be expanded with up to four additional cameras. LED work lights (80 W) improve the illumination of the work environment.

Other safety features include the separation of the fuel tank and diesel lines from hot equipment points and the integrated emergency braking system.

Maximum operating comfort for a long working day

The ergonomic driver's seat with a presence sensor and integrated suspension offers a level of comfort that takes the strain off the operator during demanding work.

The well-structured display in the driver's cab, which shows all important operating, safety and maintenance parameters, is also user-friendly. The dosage of the admixture can be conveniently synchronised with the flow of concrete via the control panel in the cab or via remote control. The automatic admixture dosage, including flow meter monitoring, also ensures precise dosing to save costs.

The dual remote control – via radio (Bluetooth) or cable (20 m) – allows flexible and easy handling. All internal components are provided with a special resin treatment that reliably protects them from moisture and high temperatures.

Optional air conditioning and heating for the cabin are available to ensure comfort even under extreme conditions.

Simply more efficient, precise and consistent concrete spraying

The powerful spraying arm of the Wetkret 4, with a vertical and horizontal range of 8.5 metres, enables flexible adaptation to the specific requirements of different tunnel geometries in underground mining. The spraying system ensures even distribution of the sprayed concrete. The robust concrete pump with VHS system and S transfer tube from Putzmeister makes it easier to spray an even concrete surface due to reduced pulsation.

Components for a longer service life and better performance

The reinforced spraying arm with double rotation cylinder is highly resistant to bending and torsion forces thanks to its sliding block system, while the suspension system ensures a long lifetime for all connections.

The optimised transmission with a continuously variable hydrostatic travel drive (ICVD) improves climbing ability, increases travel speed and acceleration from a standing start, while simultaneously reducing fuel consumption.

About the Putzmeister Group

The Putzmeister Group develops and produces high-quality machines in the fields of concrete delivery, truck-mounted concrete pumps, stationary concrete pumps, placing booms and accessories, plant engineering, pipe delivery of industrial thick materials, concrete spraying and transport in tunnels and underground, mortar machines, plastering machines, screed delivery, injection and special applications. Its markets are the construction industry, mining and tunnelling, large-scale industrial projects, power plants and sewage treatment plants, as well as waste incineration plants worldwide.

The company is based in Aichtal, Germany. With over 4,000 employees, the company generated a turnover of 1 billion euros in the 2023 financial year.