



Putzmeister



Wetkret 2 Narrow Vein

Concrete spraying equipment for narrow vein mining

WETKRET2
NARROW VEIN

OPERATION IN
ELECTRIC AND DIESEL
MODE (DUAL DRIVE)

DEPLOYMENT IN
2.5 X 2.5 M NARROW
VEIN FRONTS



The Wetkret 2 Narrow Vein represents a decisive advancement in the mechanization of concrete spraying in underground mining, especially in narrow veins.

Specifically designed to operate in reduced sections of up to 2.5 x 2.5 m, it is a robust and compact machine (7360 x 1409 x 2295 mm) featuring Putzmeister's most advanced pumping technology. It also stands out for its dual spraying system (known at Putzmeister as Dual Drive) — electric and diesel — providing maximum operational flexibility, allowing operation in electric mode to reduce emissions and ventilation needs, or in diesel mode when electrical infrastructure is unavailable.

Spraying reach of 7.5 m

Pre-installed for external compressor connection



Articulated design with FOPS/ROPS cabin

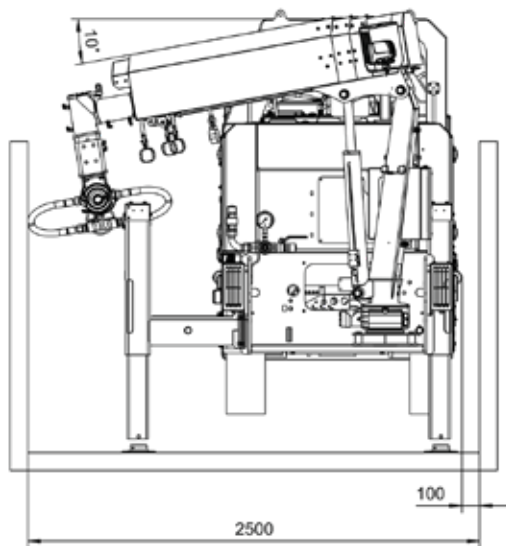
Onboard cleaning system

Precise additive synchronization with concrete flow

Latest Putzmeister pumping technology: OPS, 13 m³/h

Tailored to your needs and the toughest working conditions

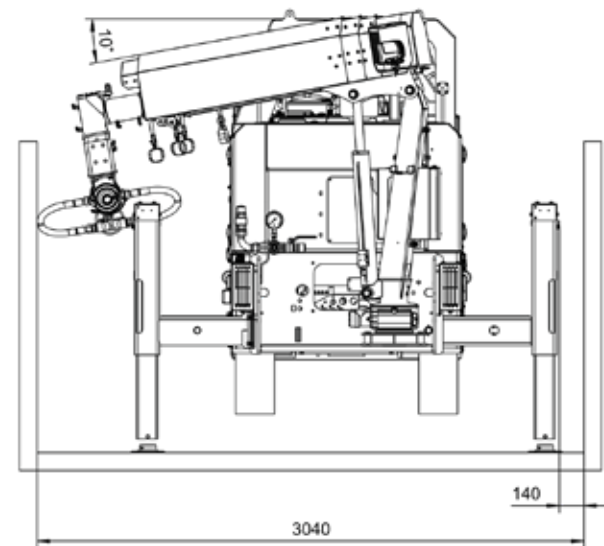
WETKRET²
NARROW VEIN



Spraying arm deployed at the face with a 7.5 m vertical reach and remote operation

The telescopic spraying arm of the Wetkret 2 Narrow Vein offers a vertical reach of up to 7.5 metres, allowing it to be deployed once the face is reached without compromising safety during transport through the narrow vein.

The remote control, available in HBC or Hetronic versions, allows the operator to work from a safe zone, managing



telescopic movements, arm opening and closing, elevation and rotation, as well as the head ergonomically and precisely. This not only improves the quality of the projection finish but also increases productivity and efficiency. Additionally, the incorporation of LED lights ensures optimal visibility of the work front, even in low light conditions.



Latest Putzmeister dual-operation pumping technology: electric and diesel

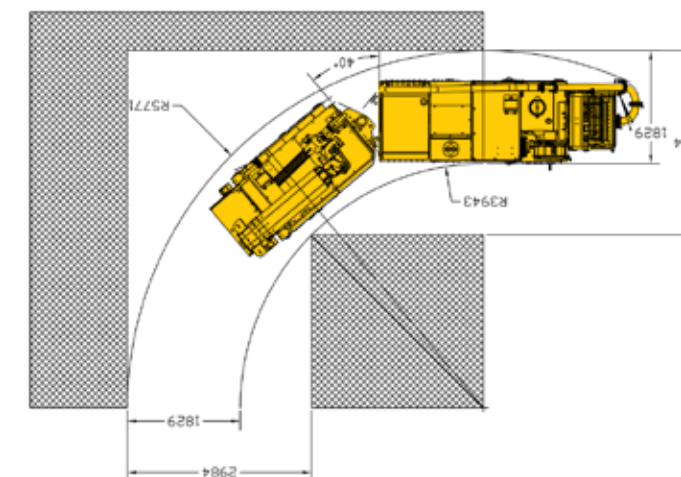
Putzmeister is globally recognized as a leading manufacturer of concrete pumps; innovation and development in this field are the foundation of its business, being a benchmark in the sector. The heart of the Wetkret 2 Narrow Vein incorporates its latest pumping technology with OPS control which translates into lower pulsation, easy maintenance and common in other equipment of the Wetkret line.

The theoretical maximum concrete flow rate reaches 13 m³/h at 40 bar, making it an ideal solution for applications in galleries with reduced dimensions. The equipment can be connected directly to the mine's electrical network or spray with its powerful diesel engine (Dual Drive).

With automatic additive synchronization

Like other Putzmeister Wetkret series equipment, is managed through the intuitive control panel by entering the desired parameters to ensure exact dosing in real time. This dosing system includes a hydraulic pump with a flow rate of 60 to 400 l/h at 10 bar pressure, and a 320 l tank.

The operating software, common to other Wetkret models, facilitates training and adaptation of operators already familiar with other Putzmeister equipment.



Diesel travel with wheel motors

The travel system of the Wetkret 2 Narrow Vein has been designed to offer maximum maneuverability in complex underground environments. The equipment features an articulated design that allows a high degree of maneuverability, a powerful diesel engine, and a traction system with individual motors on each wheel. Optionally, it can be equipped with an anti-slip system to improve performance on uneven or low-traction terrain.

Safety is ensured through a dual brake circuit and an emergency brake that can be activated from the cabin. Additionally, a manual parking brake release system is available at the machine's base to facilitate towing if necessary.

Designed based on extensive experience gained through demanding underground projects worldwide

WETKRET 2
NARROW VEIN



Ensures discharge of remaining concrete in diesel mode

As a new feature, the Wetkret 2 Narrow Vein can incorporate a Power Pack system that allows the reactivation of the concrete pump pistons in case of a shutdown during diesel operation, facilitating the discharge of remaining concrete.

This system, also present in the Mixkret range, enables mutual assistance between machines in emergency situations, enhancing the overall operational reliability.

Built for safety. Maintenance-friendly design

The design of the Wetkret 2 Narrow Vein has been optimized to facilitate maintenance and maximize reliability.

With 80% of the hydraulic system built using rigid piping, the risk of leaks is reduced and the equipment's service life is extended. The electrical and hydraulic circuits are physically separated, preventing unexpected oil leaks from causing short circuits, which enhances safety and simplifies inspection and repair tasks.

Additionally, at the central articulation point (common in SPM 4210 Wetkret equipment tested in numerous units worldwide), both layouts are optimized and protected, making maintenance easier and minimizing wear.

The main control panel also separates high and low voltages, avoiding exposure to higher voltages during operation and reducing risk during maintenance tasks.

The system is complemented by night vision cameras and IP65 protection for the remote control.

Integrated cleaning system

Our experience in underground mines worldwide confirms the importance of preventive maintenance in underground environments and specifically, proper and prompt cleaning of robotic shotcrete equipment. This ensures correct operation, extends service life and prevents unnecessary downtime. Therefore, all our equipment has a complete onboard cleaning system, allowing preliminary cleaning immediately after completing work without relying on external equipment.

The Wetkret 2 Narrow Vein is no exception. This equipment is equipped with a high-pressure cleaning system that includes a high-pressure water pump (13.2 l/min, optionally 30 l/min at 140 bar) with its spray gun and a 130 l water tank.

Options based on our experience

With over 35 years of experience working on underground projects worldwide, this knowledge acquired over all these years helps us offer our customers solutions tailored specifically to each project.

Options available for Wetkret 2 Narrow Vein include bio hydraulic oil, high efficient hydraulic oil filter with breather dryer, automatic greasing system for the traslation, trammig direction lights, transformer for alternating currents, tire options, operator seat, and cleaning pump, among others.



Driver safety & ergonomics

The new transverse cabin of the Wetkret 2 Narrow Vein improves visibility and driving ergonomics, enhancing visibility and bidirectional driving. FOPS/ROPS-certified with plug-in design facilitates maintenance without compromising security.

The driver's seat with mechanical suspension or optionally pneumatic suspension has a seat belt and presence sensor, preventing equipment movement if the operator is not correctly seated.

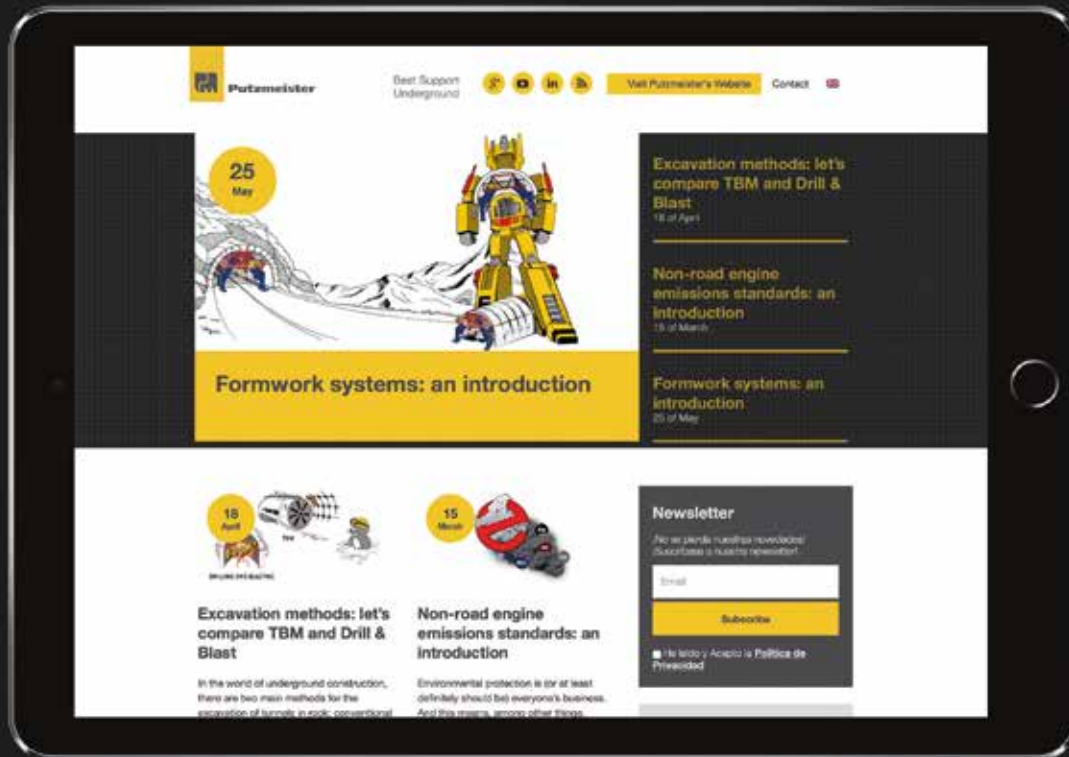


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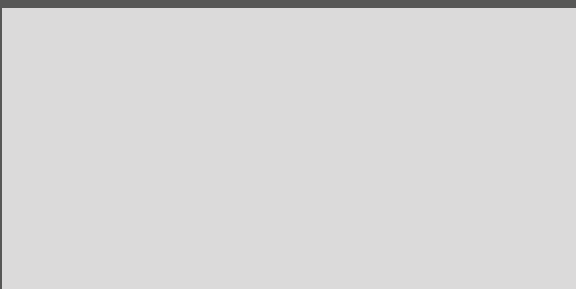
Shotcrete in underground mining
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This is a merely informative, non-binding document. Maximum theoretical values listed. Specifications are subject to change without prior notice. Photos and drawings are for illustrative purposes only. For available options, please consult the factory.

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