



PUTZMEISTER UNDERGROUND TECHNOLOGY: CONCRETE SPRAYING AND TRANSPORT FOR MINING

Putzmeister offers reliable and durable equipment for concrete spraying and transport in mines and tunnels, along with an extensive network of after sales and parts service worldwide.

For over 30 years Putzmeister has been designing, developing and producing concrete spraying equipment for mines and tunnels. The experience acquired over these years, together with an on-going investment in research and development, has made Putzmeister a leading company in this field of application.

The machinery combines the expertise of Putzmeister concrete pumps and the know-how of shotcrete acquired in numerous tunnel projects and mines all over the world. The concrete spraying range is complemented by concrete and cement transporting equipment to optimize the logistics of underground mining operations.

PUTZMEISTER CONCRETE SPRAYING TECHNOLOGY

Putzmeister offers the right equipment for concrete spraying work in underground mines and all kinds of tunnel construction. The SPM 4210 WETKRET series is purpose-built for mining and medium to small tunnel sections, whereas the SPM 500 WETKRET series is ideal for medium and large tunnel sections, mines, caverns and high slopes. The SPM 5314 WETKRET ROADSTER, mounted on roadworthy truck is especially useful for tunnel projects with various accesses. All spraying systems are

available with an on-board air compressor for autonomous shotcrete operation.

Spraying arms with reaches of up to 17m and output rates of up to 30m³/h provide the operator with the best operability and highest degree of ergonomics. The heart of the equipment is a Putzmeister concrete pump of superior quality; no other brand has pumped the same amount of cubic meters of concrete worldwide. High-precision additive dosing systems allow the synchronization of additive and concrete flow.

Specially designed for the rough working conditions of mining and tunneling, the carriers of the equipment are extremely robust and durable.

CONCRETE TRANSPORT EQUIPMENT FOR UNDERGROUND MINING

To complete the shotcreting process in underground mining, Putzmeister has developed low-profile, wet and dry-mix concrete mixing and transport equipment (MIXKRET and CEMKRET).

The MIXKRET concrete mixer line offers a concrete mixing and transport capacity of 4m³ or 5m³. Optionally, MIXKRET 4 and MIXKRET 5 include a liquid additive discharging system, as well as an additive tank and pump, to optimize shotcrete additive logistics. In this way, the concrete mixers can feed any concrete spraying equipment not only with concrete but also with additives, reducing working time and increasing safety in the operation.

The compact design with heavy-duty axles, both steering and driving, and the

powerful Caterpillar six-cylinder diesel motor (130kW / 174HP MIXKRET 4 and 168kW / 225HP MIXKRET 5), endow MIXKRET with a great traction force and climbing ability, as well as a high degree of mobility and maneuverability in small-section galleries and tunnels. With the ICVD drive system without gear shift (integrated continuously variable drive), the motor power is fully used at all times without interruptions of the tractive force, increasing comfort for the driver.

PUTZMEISTER SERVICES

Putzmeister is committed to a fast response to every customer's need, be it spare parts, technical assistance or training. With an extensive worldwide network of after-sales service technicians, Putzmeister quickly responds if assistance is required on the jobsite and also offers a 24h / 7 days technical service helpline for emergencies. Putzmeister's worldwide warehouses guarantee the availability of spare parts at the moment they are needed.

Putzmeister offers the right training to use shotcreting equipment more safely and

efficiently. Putzmeister technicians certified as "Nozzlemen" by the European Federation for Specialist Construction Chemicals and Concrete Systems (EFNARC), provide operators and maintenance staff with the required knowledge and skills to increase productivity and working life of concrete spraying and transport equipment.

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