SPM 500 WETKRET

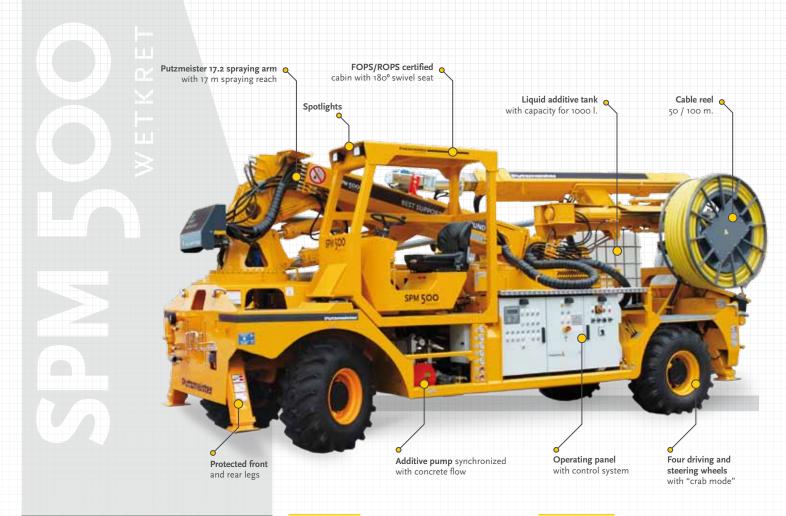


CONCRETE SPRAYING EQUIPMENT



BEST SUPPORT UNDERGROUND





SPM 500 WETKRET

The **SPM 500 WETKRET** series has proven its efficiency and reliability in a large number of projects all over the world. With a vertical spraying reach of 17 m and a concrete flow of 30 m³/h, the machine is suitable for both medium and large section tunnels, galleries and slopes.

The standard version of the **SPM 500 WETKRET** series is operated electrically and is optionally available with an electric air compressor built into the chassis.

SPM 500 WETKRET DIESEL DRIVE

The SPM 500 WETKRET DIESEL DRIVE version is equipped with a diesel drive system so that all the spraying operation components can be operated by the combustion engine, which means the machine works in places where no power supply is available.

SPRAYING ARM:

STURDY, FAST AND PRECISE

Thanks to its articulated and telescopic design, the arm can be deployed in a minimum section. The hydraulic spray lance allows horizontal alignment to be maintained automatically, which facilitates handling the spraying arm. The automatic spray lance movement and nozzle oscillation facilitate the operators work, so that he can concentrate on spraying finish quality, while increasing productivity and efficiency. The anti-stick system of the telescopic arm extends the life of the components and facilitates cleaning.

PUTZMEISTER CONCRETE PUMP: 30 m³/h

Putzmeister has been world famous as the manufacturer of concrete pumps par excellence for over 50 years. Putzmeister is synonymous with top quality, innovation and reliability. The concrete pump mounted on the equipment is specially designed for concrete spraying, guaranteeing high performance, low pulsations and a long life for the wear parts. The efficiency of the Putzmeister concrete pump is unique.

AUTOMATIC SYNCHRONIZATION OF ADDITIVE DOSAGE AND CONCRETE FLOW

The SPM 500 WETKRET series is equipped with an automatic system for high precision synchronization between the concrete pump and the additive dosing unit.

The peristaltic additive pump is controlled electronically. It is equipped with an automatic dosing device proportional to the concrete flow, thereby assuring spraying accuracy and quality. This pump is built with wear- and corrosion-resistant components and is able to work with liquid additives of all kinds.

ALL CONTROLS AVAILABLE IN REMOTE CONTROL

All the machine functions are available in the remote control, including automatic spraying sequence start and stop functions (air, concrete and additive), which facilitates the operator's work. The remote control permits full regulation of concrete output, as well as adjustments to the predefined additive dosage.

- On-board compressor built into the chassis for fully autonomous machine operation
- Remote control for easy and precise handling of spraying arm movements. Optional proportional radio remote control
- 3 The large diameter and long stoke minimize pulsations and lengthen the life of the concrete pump wear components
- Agitator in hopper and grill with electric vibrator. Steel or polymer fibre pumping. Easy to open for maintenance and cleaning
- Multilingual colour display, showing concrete flow, additive dosage, faults, diagnoses and alarms
- 6 Centralized lubrication system for proper machine maintenance







Built-in compressor

2 Cable remote control

Putzmeister concrete pump PM 1810







5 Control panel display



6 Centralized lubrication

PUTZMEISTER CONCRETE SPRAYING TECHNOLOGY



PUTZMEISTER CHASSIS.STRONG, COMPACT AND VERSATILE

The chassis is designed to work in the toughest conditions in line with the requirements in mines and tunnels. Over and above its compact dimensions, the four driving and steering wheels and the "crab mode" increase its perfect manoeuvrability in difficult driving situations even more. The machine has 2 front and 2 rear legs, protected against possible impacts, which permit the proper stabilization of the machine so as to proceed with operation on any kind of ground. Its optimum ground clearance permits agile driving over

uneven surfaces. The two-speed driving system allows the machine to travel quickly over level surfaces and climb gradients of up to 35% at low speed. Thanks to its positioning and design, the driver cabin assures perfect visibility in any situation.

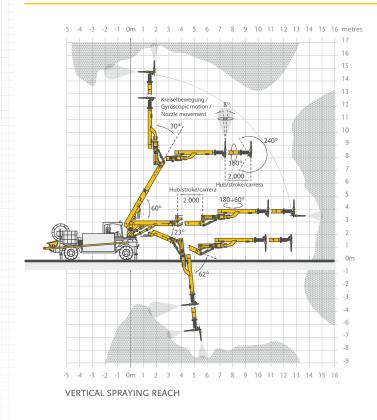
ON-BOARD COMPRESSOR. FOR TOTAL AUTONOMY

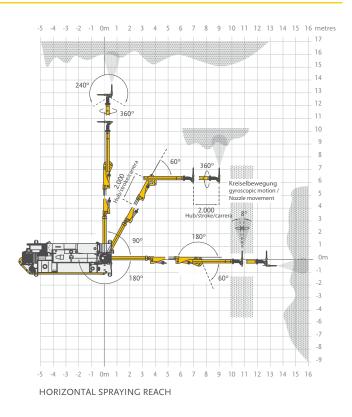
Despite its compact size, the SPM 500 WETKRET series includes the option of an electric worm compressor built into the chassis, which endows it with high mobility and the possibility to work

autonomously. The air flow of 11 m³/min permits efficient high quality spraying.

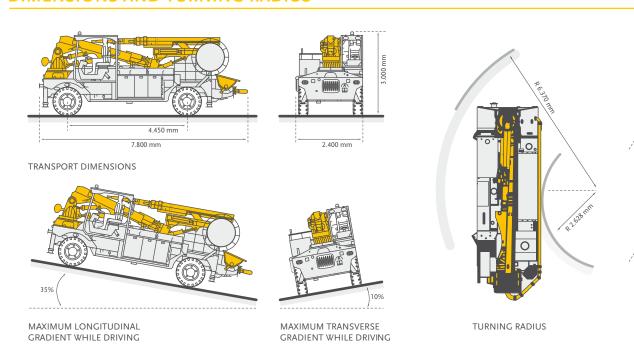
THE SPM 500 WETKRET
SERIES HAS PROVEN
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OF PROJECTS ALL
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SPRAYING ARM REACH DIAGRAMS

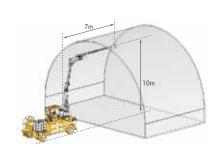


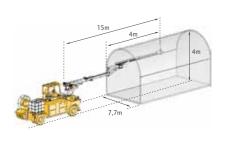


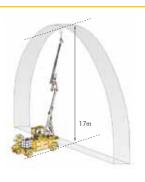
DIMENSIONS AND TURNING RADIUS



SPRAYING AREA







4-WHEEL STEERING

WITH CRAB MODE

DATA SHEET

PUTZMEISTER TELESCOPIC SPRAYING A	лям SA 17,2
Maximum spraying reach	Vertical 17 m / horizontal 15 m
Minimum unfolding section	Vertical 4 m / horizontal 7,7 m
Minimum working section	Vertical 3 m / horizontal 2,8 m
Number of arm extensions	2 telescopie
Telescopic stroke	2 x 2.000 mm
Number of axles / degrees of freedom	
Maximum arm angle	+60° / +30° -23° / -62
Lights	2 spotlights 750 W, haloger
Spraying head	
Rotation	360
Inclination	+120° / -120
Nutation	8
Nozzle	DN40 / DN50
Putzmeister concrete pump PM 18	10
Туре	Double-piston, hydraulic drive
Max. flow (theor.)	4 – 30 m³/k
Transport cylinder diameter	180 mm
Max. pressure (theor.) on concrete	75 ba
Max. aggregate size	16 mm
Automatic lubrication system	
Hopper	
Full hopper capacity	350
Filling height	1.440 mm
Spotlight	24 V / 70 W
Pumping and spraying drive syste	M
Electric	55 kW
Diesel (DUAL DRIVE version)	Carrier Diesel engine
Additive pump synchronized with 0	CONCRETE PUMPING
Adjustment range	30 - 700 l/k
Maximum working pressure	10,5 ba
Additive tank	1.000
Control system	PLC
Cable reel	
Operation	Hydraulio
Collector	4 x 300 A, 36 rpm
Cable length	50 m / 100 m optiona
Cable diameter	53-61 mm
Power	400 V 50 Hz or 440 V 60 Hz
Diameter	1.400 mm
HIGH PRESSURE WATER PUMP FOR CLE	EANING
Motor output	6 kW
Max. pressure	200 ba
Flow	15 l/mir
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PUTZMEISTER OFF-ROA	AD VEHICLE, 4-WHEEL DRIVE
Engine	Diesel, 4 cylinders
Engine power	70 kW a 2.200 rpm
Engine emissions	In line with EU-Stage III A / EPA-Tier 3
Transmission	Hydrostatic
Gearbox	2-speed in both directions
Steering	Four-wheel hydraulic steering (4WS), crab mode
Traction	4 WD
Speed	Max. 20 km/h
Braking system	Service brakes: 4-wheel hydraulic multi-disc brakes in oil bath
	Parking brake: 2-wheel independent, hydraulic multi-disc brakes in oil bath, manual.
	Emergency brake
Working lights	4 halogen spotlights 24V 70W H3
Driver cabin	FOPS/ROPS certified, with 180° swivel seat
Oil tank	390 l
Electrical equipment	2 x 12 V 110 A batteries
Diesel tank	150 l
PUTZMEISTER REMOTE	CONTROL
Drive	Cable / radio (optional)
Cable length	15 m
WEIGHT	
16.000 kg / 15.500 kg withou	ıt compressor Brake Hydraulic

OPTIONAL EQUIPMENT

ELECTRIC COMPRESSOR	
Power	75 kW
Max. working pressure	7,5 bar
Max. air flow	11 m ³ / min
DIESEL COMPRESSOR (DUAL DRIVE VER	SION)
Power	70 kW
Max. working pressure	7,0 bar
Max. air flow	11 m ³ / min
FIRE EXTINGUISHING SYSTEM	
Drive	Automatic / manual
Other	
Complete spare wheel MITAS M PT-02 / Rim size	e 18 x 19.5 ''
Proportional radio remote control	
100 m special cable for 1000 V	
Additive tank with stainless steel protection	
Catalytic converter	
Particle filter	
Framming direction lights	
Special voltages	
Power	660 V 50/60 Hz or 1.000 V 50/60 Hz

PUTZMEISTER:

CONCRETE SPRAYING TECHNOLOGY

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 ongoing investment in research and development have made Putzmeister a leading company in this field of application. It is this experience and search for added value for our customer that makes us different

The main components of Putzmeister concrete spraying equipment, spraying arm, concrete pump, chassis and control software are designed, developed and produced in-house in order to offer perfectly synchronized equipment tailored to our customer's needs and the toughest working conditions







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Strategic alliance for the development of concrete spraying technology

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