CONCRETE SPRAYING EQUIPMENT
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.

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.

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.

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.
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.

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**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.

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**THE SPM 500 WETKRET SERIES HAS PROVEN ITS EFFICIENCY AND RELIABILITY IN A LARGE NUMBER OF PROJECTS ALL OVER THE WORLD**
SPRAYING ARM REACH DIAGRAMS

DIMENSIONS AND TURNING RADIUS

TRANSPORT DIMENSIONS

MAXIMUM LONGITUDINAL GRADIENT WHILE DRIVING

MAXIMUM TRANSVERSE GRADIENT WHILE DRIVING

TURNING RADIUS

4-WHEEL STEERING WITH CRAB MODE

SPRAYING AREA
DATA SHEET

**PUTZMEISTER TELESCOPIC SPRAYING ARM SA 17,2**
- Maximum spraying reach: 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 telescopic
- Telescopic stroke: 2 x 2.000 mm
- Number of axles / degrees of freedom: 9
- Maximum arm angle: +60° / +30° -23° / -62°
- Lights: 2 spotlights 750 W, halogen

**SPRAYING HEAD**
- Rotation: 360°
- Inclination: +120° / -120°
- Nutation: 8°
- Nozzle: DN40 / DN50

**PUTZMEISTER CONCRETE PUMP PM 1810**
- Type: Double-piston, hydraulic drive
- Max. flow (theor.): 4 – 30 m³/h
- Transport cylinder diameter: 180 mm
- Max. pressure (theor.) on concrete: 75 bar
- Max. aggregate size: 16 mm
- Automatic lubrication system

**HOPPER**
- Full hopper capacity: 350 l
- Filling height: 1.440 mm
- Spotlight: 24 V / 70 W

**PUMPING AND SPRAYING DRIVE SYSTEM**
- Electric: 55 kW
- Diesel (DUAL DRIVE version): Carrier Diesel engine

**ADDITIVE PUMP SYNCHRONIZED WITH CONCRETE PUMPING**
- Adjustment range: 30 - 700 l/h
- Maximum working pressure: 10,5 bar
- Additive tank: 1.000 l
- Control system: PLC

**CABLE REEL**
- Operation: Hydraulic
- Collector: 4 x 300 A, 36 rpm
- Cable length: 50 m / 100 m optional
- Cable diameter: 53-61 mm
- Power: 400 V 50 Hz or 440 V 60 Hz
- Diameter: 1.400 mm

**HIGH PRESSURE WATER PUMP FOR CLEANING**
- Motor output: 6 kW
- Max. pressure: 200 bar
- Flow: 15 l/min
- Hose: 15 m

**PUTZMEISTER OFF-ROAD 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 without compressor Brake Hydraulic

**OPTIONAL EQUIPMENT**

**ELECTRIC COMPRESSOR**
- Power: 75 kW
- Max. working pressure: 7,5 bar
- Max. air flow: 11 m³/min

**DIESEL COMPRESSOR (DUAL DRIVE VERSION)**
- Power: 70 kW
- Max. working pressure: 7,0 bar
- Max. air flow: 11 m³/min

**FIRE EXTINGUISHING SYSTEM**
- Drive: Automatic / manual

**OTHER**
- Complete spare wheel MITAS M PT-02 / Rim size 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
- Tramming direction lights

**SPECIAL VOLTAGES**
- Power: 660 V 50/60 Hz or 1.000 V 50/60 Hz

Consult Putzmeister for special configurations
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.

Strategic alliance for the development of concrete spraying technology