

Sika® - PM 4207

Salute the next generation
in sprayed concrete equipments

Putzmeister



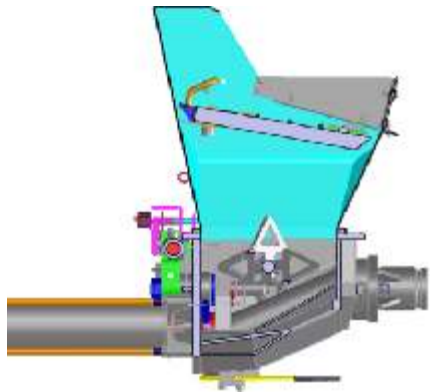
Universal concrete spraying system with on-board compressor

Putzmeister is glad to present the next generation of Concrete Spraying Equipment for lower sections in tunnelling and mining. The Sika® PM 4207 is the result of a technical development based on the experience and knowledge that was acquired in the last few years through its successful predecessor, the Sika® PM 407, on construction sites all over the world.

This new series of machines will provide our clients with a range of new benefits that will undoubtedly make it a world reference in its field of application.



Specially designed hopper with agitator and vibrator grill for shotcrete operation with steel / polymer fibres.



Everything you need on board

The highlight: Even in the PC variant with additionally integrated screw compressor, it remains as compact and flexible as the predecessor model. This was a particular request from customers and makes its use significantly more mobile and independent than with the previously available machines with similar dimensions.

Intelligent articulated chassis

The basis for this is an intelligent chassis concept as a platform, on which different customer-specific requirements can be realised. During development, great emphasis was placed on a very robust frame, which is adapted to the highest stresses of working in a tunnel.

Main features:

- Extremely robust and compact design, purpose-built for working conditions of mining and tunnelling.
- Deutz Tier-3 diesel engine, air/oil-cooled. Simple and extremely reliable.
- On-board screw compressor*. 6,5 m³/min. 7,5 bar max. Electronically controlled.
- Double piston concrete pump P715. VHS control system. Simple and with extremely long maintenance intervals.
- More efficient and accurate additive management system, resulting in cost savings for the client.
- On-board computer with multilingual colour display which indicates performance, composition of ingredients, fault diagnosis, alarms, etc.
- Cabin design according to FOPS ROPS criteria.
- Xenon working lights.
- Protected outriggers.
- Turbo engine for working at high altitude.

	Spraying	Unfold
	Max. Reach	Min. Section
Vertical	9 m	2,5 m
Horizontal	7 m	3,2 m

Optional Equipment:

The available optional package is designed to adapt the equipment to the most diverse and particular working conditions upon request.

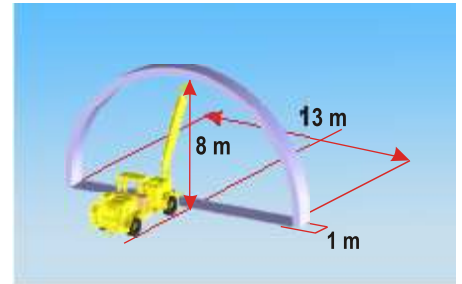
- Cable reel with 100 m.
- Wireless remote control
- High pressure water pump. Diesel and electrical operation.

Optional Equipment recommended for mining:

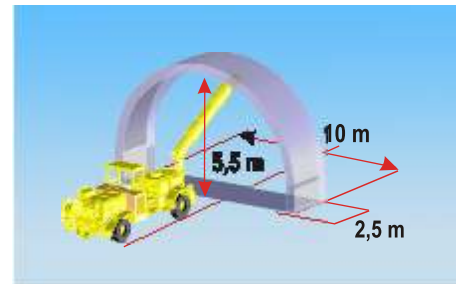
- Mining wheels.
- Catalyst
- Particle filter
- Integrated fire extinguishing system
- Voltages up to 1000 V (50 & 60 Hz)

* Version PC

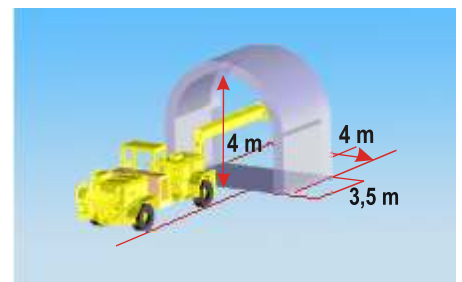
Once again Putzmeister, driven by the internal philosophy of continuous improvement, is able to offer its client the best solutions in the field of underground construction.



Spraying arm designed to work in medium and small tunnel sections.

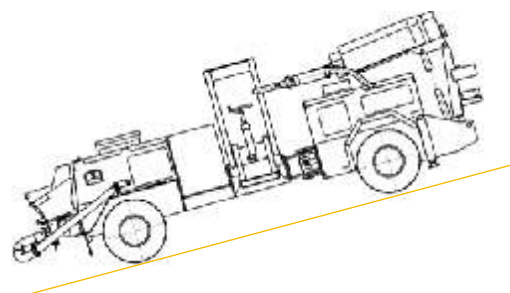
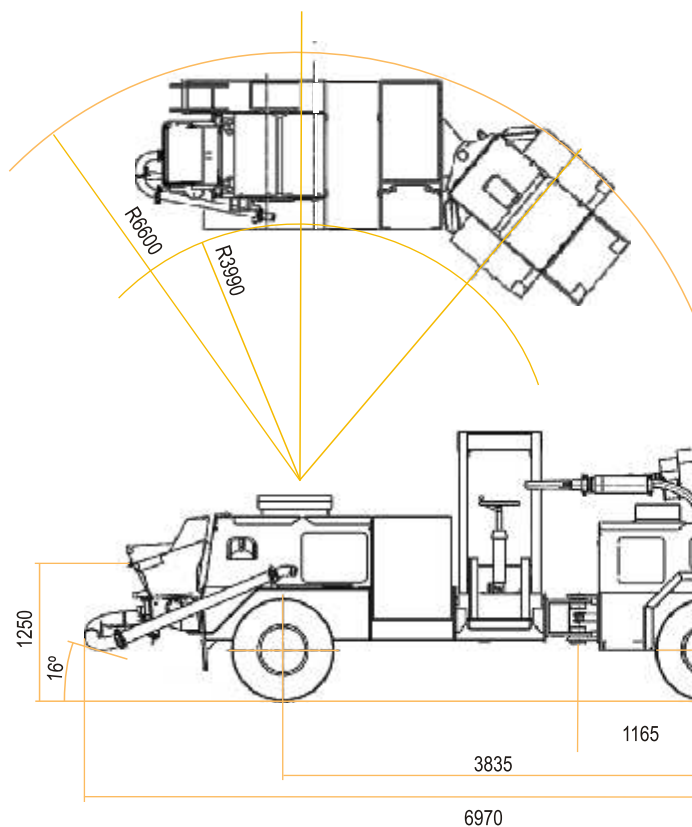


Easy to handle and optimum maneuverability.

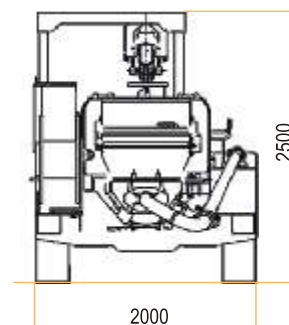


Great stability and high spraying performance.





Max. 45% (P) , 35% (PC)



Dimensions

Transport length	6210 mm	6970 mm
Transport width	2000 mm	2000 mm
Transport height	2500 mm	2500 mm
Weight	7600 kg	8500 Kg
Wheel base	3075 mm	3835 mm
Ground clearance	240 mm	240 mm

Turning radius

outer	5500 mm	5700 mm
inner	3200 mm	3300 mm

Max. Climbing Ability

45%	35%
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Carrier

Sika® PM 4207 P - Sika® PM 4207 PC

Engine	Turbo diesel, Deutz TD 2011
Motor output	57,5 Kw / 2600 r.p.m
Cooling	Air-oil
Speed	20 km/h
Steering	Hydraulic cylinder (articulated vehicle)
Voltage	400 V 50 Hz
Cable length	440 V 60 Hz
Roll up/off	50 m / 100 m*
	manually

Liquid additive dosing system

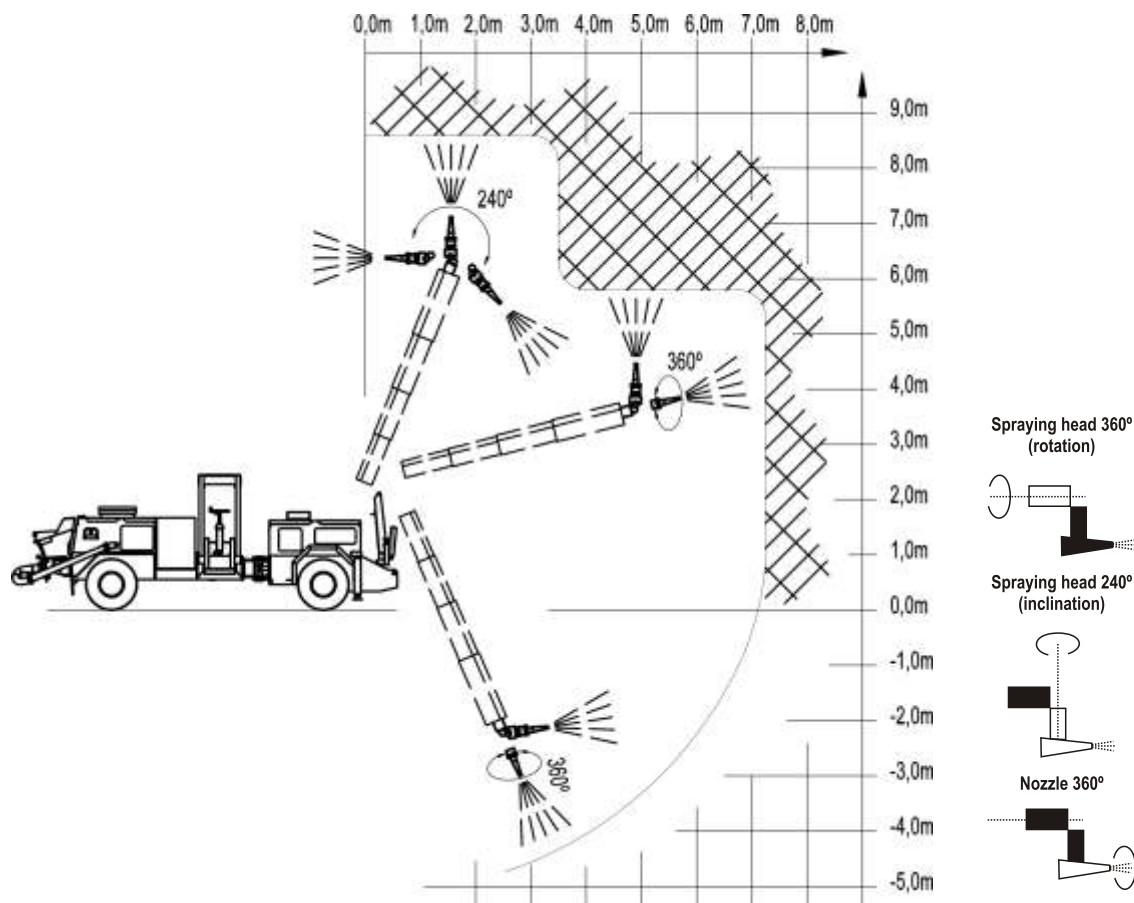
Synchronized with the pumping
Hidraulically operated

Type	Peristaltic
Flow	35-500 l/h
Control system	Electronic, PLC
Tank capacity	200 l

*Optional



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Concrete pump

PM 715

Operating principle	Double Piston pump
Cylinder diameter	150 mm
Stroke length	700 mm
Conveying transport (theoretical)	4-20 m³/h
Concrete pressure max.	7,0 MPa
Grain size max.	16 mm
Motor output	30 Kw

Dual operation devices (Diesel/electric)

Front stabilizers
Telescopic spraying arm
Control panel
High pressure water pump*

*Optional

Compressor

(Only for Sika® PM 4207 PC)

Type	Screw compressor
Drive	Electric
Motor output	37 Kw
Max. air flow	6,5-7 m³/min
Max. air pressure	7,5 bar

Telescopic spraying arm Aliva - 302

Arm

Rotation angle (left/right)	330°
Rotation angle (up/down)	+ 63° / - 65°
N° of extensions	3
Protected extensions (with cover)	all

Head

Swing angle arm	180°
Spraying head rotation	360°
Spraying head inclination	240°
Telescopic stroke	2925 mm
Vertical Reach	9000 mm



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