Sika® - PM 4207

Salute the next generation
in sprayed concrete equipments
Universal concrete spraying system with on-board compressor

Putzmeister is glad to present the next generation of Concrete Spraying Equipment for lower sections in tunneling and mining. The Skia® 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 Skia® 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.

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 tunneling.
- Deutz Tier-3 diesel engine, air-cooled. Simple and extremely reliable.
- On-board screw compressor*. 8.5 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 altitudes.

<table>
<thead>
<tr>
<th></th>
<th>Spraying</th>
<th>Unfold</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Max. Reach</td>
<td>Min. Section</td>
</tr>
<tr>
<td>Vertical</td>
<td>9 m</td>
<td>2.5 m</td>
</tr>
<tr>
<td>Horizontal</td>
<td>7 m</td>
<td>3.2 m</td>
</tr>
</tbody>
</table>

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

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.
### Dimensions

<table>
<thead>
<tr>
<th>Dimension</th>
<th>Value</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Transport length</td>
<td>6210 mm</td>
<td>6970 mm</td>
</tr>
<tr>
<td>Transport width</td>
<td>2000 mm</td>
<td>2000 mm</td>
</tr>
<tr>
<td>Transport height</td>
<td>2500 mm</td>
<td>2500 mm</td>
</tr>
<tr>
<td>Weight</td>
<td>7600 kg</td>
<td>8500 Kg</td>
</tr>
<tr>
<td>Wheel base</td>
<td>3075 mm</td>
<td>3635 mm</td>
</tr>
<tr>
<td>Ground clearance</td>
<td>240 mm</td>
<td>240 mm</td>
</tr>
<tr>
<td>Turning radius</td>
<td></td>
<td></td>
</tr>
<tr>
<td>outer</td>
<td>5500 mm</td>
<td>5700 mm</td>
</tr>
<tr>
<td>inner</td>
<td>3200 mm</td>
<td>3300 mm</td>
</tr>
<tr>
<td>Max. Climbing Ability</td>
<td>45%</td>
<td>35%</td>
</tr>
</tbody>
</table>

### Carrier

**Silka® PM 4207 P - Silka® PM 4207 PC**

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
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</thead>
<tbody>
<tr>
<td>Engine</td>
<td>Turbo diesel, Deutz TD 2011</td>
</tr>
<tr>
<td>Motor output</td>
<td>57.5 Kw / 2600 r.p.m</td>
</tr>
<tr>
<td>Cooling</td>
<td>Air-oil</td>
</tr>
<tr>
<td>Speed</td>
<td>20 km/h</td>
</tr>
<tr>
<td>Steering</td>
<td>Hydraulic cylinder (articulated vehicle)</td>
</tr>
<tr>
<td>Voltage</td>
<td>400 V 50 Hz</td>
</tr>
<tr>
<td></td>
<td>440 V 60 Hz</td>
</tr>
<tr>
<td>Cable length</td>
<td>50 m / 100 m*</td>
</tr>
<tr>
<td>Roll up-off</td>
<td>manually</td>
</tr>
</tbody>
</table>

**Liquid additive dosing system**

- Synchronized with the pumping
- Hydraulically operated

**Type**

- Peristaltic

**Flow**

- 35-500 l/h

**Control system**

- Electronic, PLC

**Tank capacity**

- 200 l

*Optional
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: 8.5-7 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