Technical specification

Slipform Paver SP 500
### Slipform Paver SP 500, basic machine

<table>
<thead>
<tr>
<th><strong>Vibrators and circuits</strong></th>
<th>Hydraulic vibration</th>
<th>8 connections (optional: 16 connections)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Electric vibration</td>
<td>12 connections (optional: 18 connections)</td>
</tr>
<tr>
<td></td>
<td>Hydraulically driven vibrators</td>
<td>straight and curved</td>
</tr>
<tr>
<td></td>
<td>Electrically driven vibrators</td>
<td>straight and curved</td>
</tr>
<tr>
<td><strong>Engine</strong></td>
<td>Engine manufacturer</td>
<td>Deutz</td>
</tr>
<tr>
<td></td>
<td>Type</td>
<td>TCD 2012 L06 2V</td>
</tr>
<tr>
<td></td>
<td>Cooling</td>
<td>water</td>
</tr>
<tr>
<td></td>
<td>Number of cylinders</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>Rated power at 2,100 min⁻¹</td>
<td>129.4 kW / 174 HP / 176 PS</td>
</tr>
<tr>
<td></td>
<td>Displacement</td>
<td>6,057 cm³</td>
</tr>
<tr>
<td></td>
<td>Fuel consumption, full load</td>
<td>35.8 l/h</td>
</tr>
<tr>
<td></td>
<td>Fuel consumption, field mix</td>
<td>16.2 l/h</td>
</tr>
<tr>
<td></td>
<td>Emission standards</td>
<td>EPA Tier III, 2004/26/EC, Stage IIIa</td>
</tr>
<tr>
<td><strong>Electrical system</strong></td>
<td>Supply voltage</td>
<td>24 V DC</td>
</tr>
<tr>
<td></td>
<td>Electric vibration (option)</td>
<td>110V AC  3~/ 200 Hz</td>
</tr>
<tr>
<td><strong>Filling capacities</strong></td>
<td>Fuel tank</td>
<td>350 l</td>
</tr>
<tr>
<td></td>
<td>Hydraulic fluid tank</td>
<td>380 l</td>
</tr>
<tr>
<td></td>
<td>Water tank</td>
<td>475 l</td>
</tr>
<tr>
<td><strong>Driving characteristics</strong></td>
<td>Paving speed</td>
<td>0 to 5 m/min</td>
</tr>
<tr>
<td></td>
<td>Travel speed</td>
<td>0 to 18 m/min</td>
</tr>
<tr>
<td><strong>Crawler tracks</strong></td>
<td>Number</td>
<td>3 or 4</td>
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<tr>
<td></td>
<td>Dimensions (L x W x H)</td>
<td>1,550 mm x 300 mm x 450 mm</td>
</tr>
<tr>
<td><strong>Height adjustment</strong></td>
<td>Hydraulic</td>
<td>1,000 mm</td>
</tr>
<tr>
<td></td>
<td>Mechanical (hole pattern)</td>
<td>280 mm</td>
</tr>
</tbody>
</table>
| Scope of applications | Slab paving application | paving width: 2.00 to 6.00 m *¹  
 | | | paving thickness: up to 400 mm *¹ |
| Concrete spreading | Spreading plough | modular extension to up to 6.00 m |
| | Spreading auger | modular extension to up to 6.00 m |
| Slab paving equipment | Slab paving mould | modular extension to up to 6.00 m |
| | Finishing beam | modular extension to up to 6.00 m |
| | Super smoother | modular extension to up to 6.00 m |
| | Dowel bar inserter | Ø dowel bars: 20 to 40 mm *²  
 | | | dowel bar length: 450 to 600 mm *² |
| | Side tie bar inserter | Ø tie bars: 20 to 40 mm *³,  
 | | | tie bar length: 400 to 800 mm *³ |
| Camber |  | gradient up to 3 % |
| Transport dimensions | Machine with slab paving mould, 6.00 m | 10,800 mm x 2,550 mm x 3,100 mm |
| (L x W x H) | Machine with slab paving mould, 6.00 m, spreading plough, finishing beam and super smoother | 10,800 mm x 2,950 mm x 3,100 mm |
| | Machine with slab paving mould, 6.00 m, spreading auger, finishing beam and super smoother | 10,800 mm x 3,150 mm x 3,100 mm |
| | Fully equipped machine, 6.00 m, including dowel bar inserter | 10,800 mm x 3,500 mm x 3,100 mm |
| Machine weights *⁴ | Empty weight (without concrete spreading equipment, with mould, without finishing equipment, without dowel bar inserter, without diesel/water), 6.00 m | 29,600 daN (kg) |
| | Operating weight CE (with concrete spreading equipment, with mould, without finishing equipment, without dowel bar inserter), 6.00 m | 30,700 daN (kg) |
| | Operating weight CE (with concrete spreading equipment, with mould, with finishing beam and super smoother, without dowel bar inserter), 6.00 m | 32,500 daN (kg) |
| | Max. operating weight CE (fully equipped machine including dowel bar inserter), 6.00 m | 39,000 daN (kg) |

*¹ = Please consult factory for special paving widths, paving thicknesses and options.
*² = The range of dowel bar dimensions specified above can be covered. For any other dimensions, please consult factory. The dowel bar inserters will be customized in accordance with the pre-selected customer requirement.
*³ = The range of tie bar dimensions specified above can be covered. For any other dimensions, please consult factory. The side tie bar inserters will be customized in accordance with the pre-selected customer requirement.
*⁴ = Weights depend on the machine’s range of equipment and working width.
| **Scope of applications** | Offset application | optional mounting left or right  
| | | paving width: up to 3,000 mm  
| | | offset height: up to 2,200 mm  
| **Concrete feeding** | Belt conveyor | standard  
| | Auger conveyor | option  
| **Mould** | Mould | to customer specification (option)  
| **Trimmer (option)** | Diameter with tools | 500 mm  
| | Basic width | 750 mm  
| | Extension elements | 250 mm/300 mm/350 mm  
| | Max. width | 1,650 mm  
| | Trimming depth | 100 mm  
| | Height adjustment, hydraulic | 400 mm  
| | Height adjustment, mechanical (hole pattern) | 300 mm  
| | Two-stage lateral telescoping | 1,900 mm  
| **Transport dimensions (L x W x H)** | Machine  
| | (without belt conveyor/auger conveyor) | 6,800 mm x 2,550 mm x 3,100 mm  
| | Machine (with belt conveyor) | 8,800 mm x 2,550 mm x 3,100 mm  
| | Machine (with auger conveyor) | 7,800 mm x 2,550 mm x 3,100 mm  
| **Machine weights** | Empty weight (without trimmer, with belt conveyor, without mould, without diesel/water) | 15,800 daN (kg)  
| | Operating weight CE (without trimmer, with belt conveyor) | 16,600 daN (kg)  
| | Auger conveyor | 1,300 daN (kg)  
| | Belt conveyor | 850 daN (kg)  
| | Max. operating weight CE (with trimmer, with auger conveyor and curb and gutter profile mould) | 18,800 daN (kg)  

\*1 = Weights depend on the machine's range of equipment and working width.  
\*2 = Please consult factory for different offset geometries or special applications.  
\*3 = Please consult factory for special widths.
SP 500, offset paver
Dimensions in mm
SP 500, offset paver with pivoting legs
Dimensions in mm

Dimensions:
- Working direction: 5,100 mm
- Height: 5,100 mm
- Width: 8,500 mm
- Depth: 1,400 mm
Basic equipment of SP 500, slab paver
Dimensions in mm

- Trailing and deep paving mould
- Slab paving mould
- Pair of pivoting legs
- Levelling device
- Spreading plough
- Super smoother
- Finishing beam

Working direction

2,000 – 6,000 *

6,700

* = Please consult factory for special paving widths
Optional equipment SP 500, slab paver
Dimensions in mm

* = Please consult factory for special paving widths
Dowel bar inserter (option)
Dimensions in mm

- Vibrating frame
- Control panel
- Dowel bar dispenser car
- Base plates
- Track for dowel bar inserter (at machine)

Working direction

* = The range of dowel bar dimensions specified above can be covered. For any other dimensions, please consult factory. The dowel bar inserters will be customized in accordance with the pre-selected customer requirement.
Equipment features SP 500 slipform paver

**Standard equipment:**
- **Operator’s platform**
  - Convenient control panel with practical switches
  - Digital LC display with rotary buttons/push buttons to display all major operating parameters and to key in job parameters
  - Lockable control panel cover
  - Removable main control panel

- **Levelling**
  - Slope sensor for detection of the machine’s cross slope
  - Two level sensors
  - Two steering sensors

- **Vibration**
  - 8 connections for hydraulic vibration (separately adjustable)

- **Concrete equipment for slab paving**
  - Slab paving mould for the paving of 2.00 m wide concrete slabs, including hydraulic sideplates
  - Trailing and deep paving mould for concrete slabs of 200 mm and 260 mm

- **Chassis and height adjustment**
  - 3-fold height control with high-precision valve technology
  - Adjustment to site conditions through various mounting options

- **Machine control**
  - Comfort feature for quick-starting all necessary paving functions following stand-by position
  - A single PLC governs all machine functions
  - Integrated engine controller for optimum engine control
  - Switching function to quickly change from transverse to longitudinal travel, e.g. when converting the paver from slab paving to offset paving

- **Engine**
  - Anti-vibration engine support in rubber mounts
  - Highly effective triple-circuit water cooler for engine, hydraulic oil and charge air

- **Miscellaneous**
  - Lighting package with 3 halogen spotlights

**Optional equipment:**
- **Operator’s platform**
  - Canopy
  - Ventilation of control cabinet

- **Levelling**
  - 3D kit to support 3D control systems
  - Slab tracer for sensing a reference surface

- **Vibration**
  - 8 additional connections for hydraulic vibration
  - Electric vibration with 20-kVA generator and 12 connections
  - Electric vibration with 40-kVA generator and 18 connections
  - Electric vibrators (straight or curved)
  - Hydraulic vibrators (straight or curved)

- **Chassis and height adjustment**
  - Extremely wear-resistant polyurethane track pad equipment
  - Pair of pivoting legs each front and rear to allow adjustment to site conditions

- **Concrete spreading**
  - Spreading plough
  - Spreading auger (optionally including camber)

- **Concrete equipment for slab paving**
  - Extension elements for slab paving mould up to 6.00 m (optionally including camber)
  - Finishing beam up to 6.00 m (optionally including camber)
  - Super smoother extension up to 6.00 m
  - Dowel bar inserter up to 6.00 m (optionally including camber)
  - Side tie bar inserters

- **Concrete equipment for offset paving**
  - Mould mount to allow offset paving on the left or right side
  - Offset moulds to customer specification
  - Trimmer with standard width of 750 mm (can be extended to up to 1,650 mm)
  - Concrete feeding via belt conveyor or auger conveyor

- **Miscellaneous**
  - Special painting
  - Lighting package with 4 floodlights (110 V)
  - High-pressure water cleaner
  - Stakes and wire kit
  - Tension winch
  - Hydraulically driven hoisting crane for dowel bar packages