A WIRTGEN GROUP COMPANY

WIRTGEN

One machine for single-layer or dual-layer concrete paving.

Slipform Paver SP 1600

Outstanding features of the SP 1600 for single-layer concrete paving

3 | OPERATOR'S PLATFORM

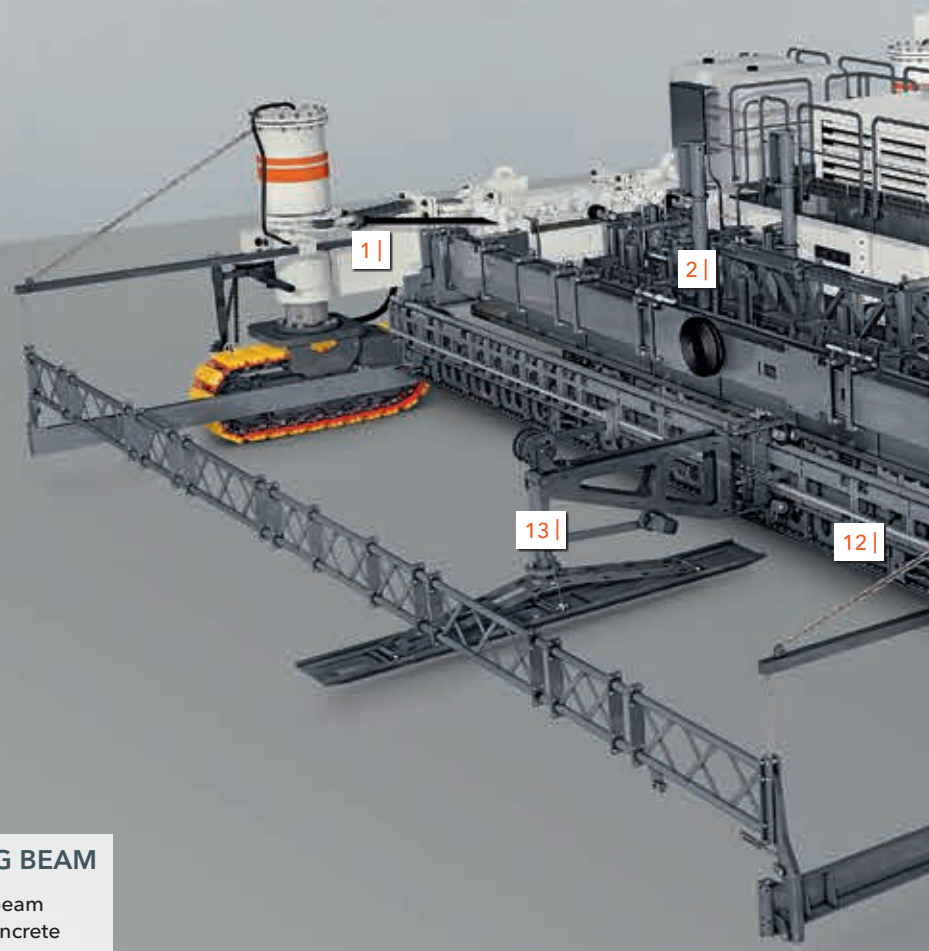
Ergonomically designed, walk-through operator's platform for non-tiring, productive working.

2 | LONGITUDINAL JOINT TIE BAR INSERTER

Automated insertion of longitudinal joint tie bars to prevent concrete slabs from drifting apart.

1 | PIVOTING LEGS

Pivoting legs for full adjustment of the track units to the conditions prevailing on site.



13 | SUPER SMOOTHER

Super smoother for a perfectly smooth surface finish.

12 | OSCILLATING BEAM

Eccentrically driven oscillating beam for the production of smooth concrete surfaces.

11 | TRACK UNITS

Hydraulically driven, separately height-adjustable and steerable track units for precise driving behaviour and high-precision concrete paving.

4 | POWER UNIT

High-powered, fuel-efficient diesel engine for concrete paving in the optimum performance and torque ranges.

5 | CONCRETE SPREADING EQUIPMENT

Spreading plough for even distribution of the freshly delivered concrete in front of the inset paving mould.

6 | VIBRATORS

Electrically driven vibrators for reliable concrete compaction.

7 | INSET PAVING MOULD

Inset paving mould suitable for mounting between the track units, underneath the machine.

8 | SIDE TIE BAR INSERTER

Automated insertion of side tie bars when paving adjacent concrete slabs.

10 | TELESCOPING MACHINE FRAME

Machine frame telescoping to one side in transverse direction to allow full adjustment to site conditions.

9 | DOWEL BAR INSERTER

Automated insertion of dowel bars to maintain the surface levels of neighbouring concrete slabs.

Outstanding features of the SP 1600 for dual-layer concrete paving

3 | OPERATOR'S PLATFORM

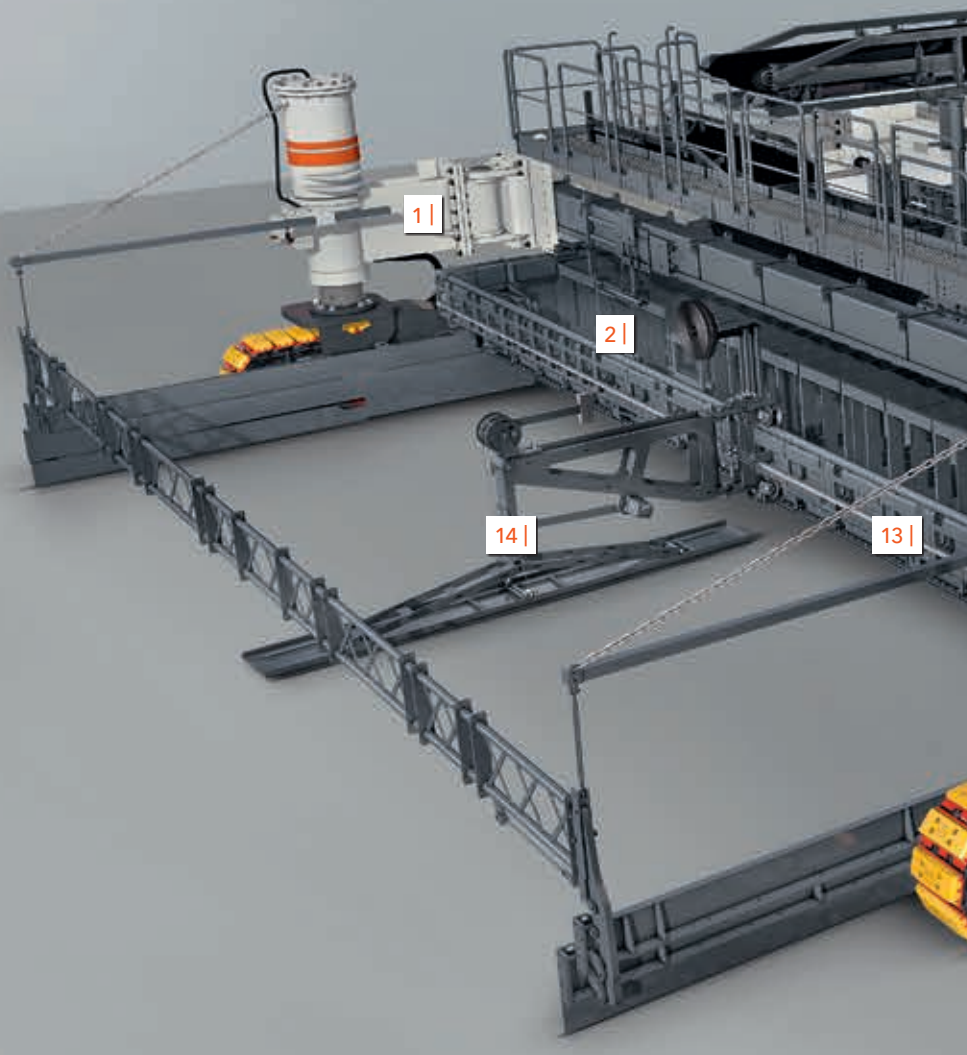
Ergonomically designed, walk-through operator's platform for non-tiring, productive working.

2 | LONGITUDINAL JOINT TIE BAR INSERTER

Automated insertion of longitudinal joint tie bars to prevent concrete slabs from drifting apart.

1 | PIVOTING LEGS

Pivoting legs for full adjustment of the track units to the conditions prevailing on site.



17 | CONCRETE SPREADING EQUIPMENT (TOP-LAYER CONCRETE)

Spreading auger for even distribution of the freshly delivered top-layer concrete in front of the inset paving mould.

16 | VIBRATORS (TOP-LAYER CONCRETE)

Special, electrically driven vibrators for reliable compaction of the top-layer concrete.

15 | INSET PAVING MOULD (TOP-LAYER CONCRETE)

Inset paving mould suitable for mounting between the track units, underneath the machine.

14 | SUPER SMOOTHER

Super smoother for a perfectly smooth surface finish.

13 | OSCILLATING BEAM

Eccentrically driven oscillating beam for the removal of surface irregularities.

12 | TRACK UNITS

Hydraulically driven, separately height-adjustable and steerable track units for precise driving behaviour and high-precision concrete paving.

4 | POWER UNIT

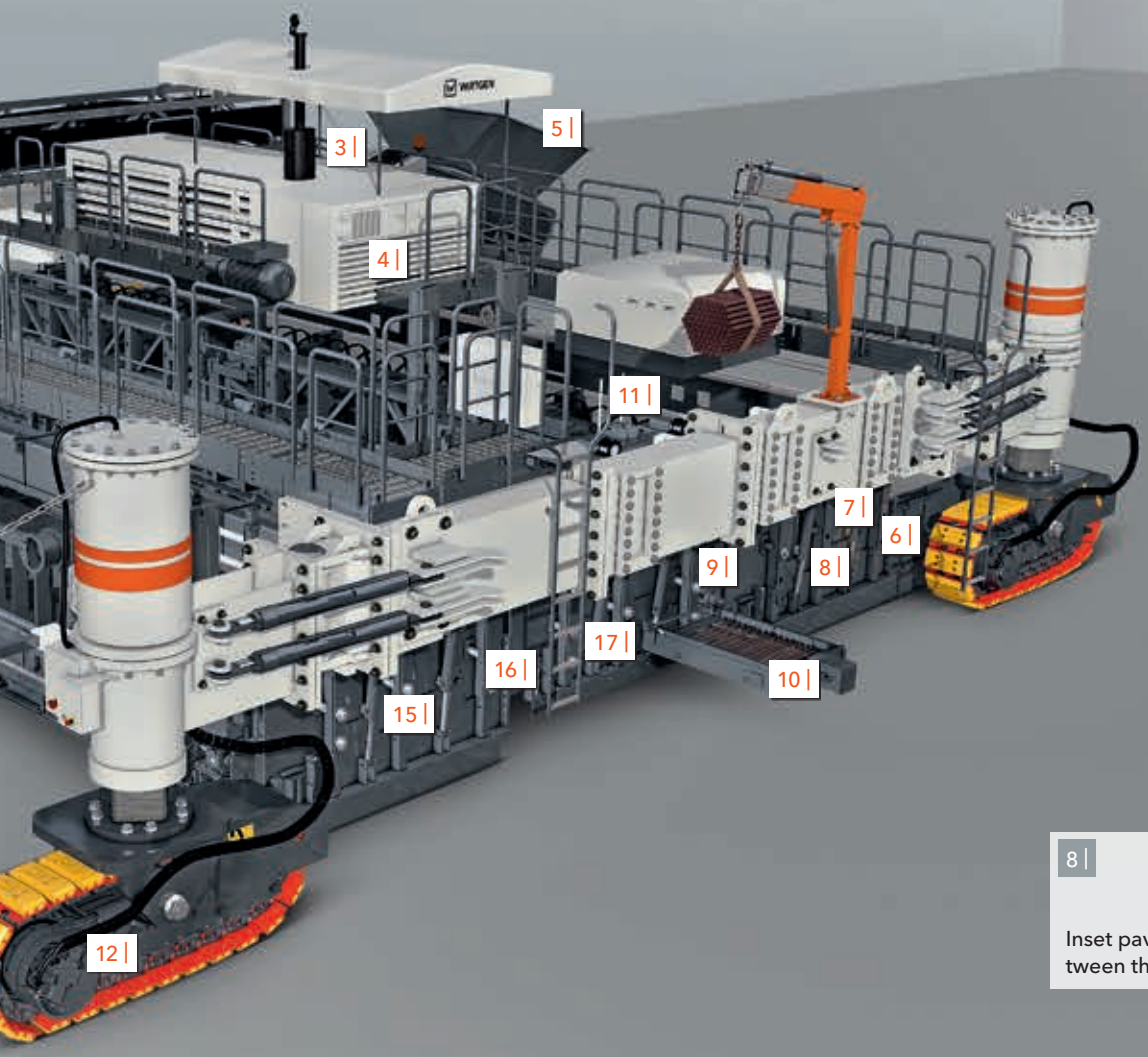
High-powered, fuel-efficient diesel engine for concrete paving in the optimum performance and torque ranges.

5 | CONVEYING SYSTEM

Conveying system transporting the top-layer concrete in front of the paving mould for upper layer.

6 | CONCRETE SPREADING EQUIPMENT (BOTTOM-LAYER CONCRETE)

Spreading plough for even distribution of the freshly delivered bottom-layer concrete in front of the inset paving mould.



7 | VIBRATORS (BOTTOM-LAYER CONCRETE)

Electrically driven vibrators for reliable compaction of the bottom-layer concrete.

8 | INSET PAVING MOULD (BOTTOM-LAYER CONCRETE)

Inset paving mould suitable for mounting between the track units, underneath the machine.

9 | SIDE TIE BAR INSERTER

Automated insertion of side tie bars when paving adjacent concrete slabs.

11 | TELESCOPING MACHINE FRAME

Machine frame telescoping to one side in transverse direction to allow full adjustment to site conditions.

10 | DOWEL BAR INSERTER

Automated insertion of dowel bars to maintain the surface levels of neighbouring concrete slabs.

Fully focused

on top performance.

ROAD TRANSPORT IS INCREASING CONTINUOUSLY. TECHNOLOGICAL DEVELOPMENT IS FORGING AHEAD AT AN EVER FASTER PACE. OFFERING YOU MORE OPPORTUNITIES – ALSO IN CONCRETE ROAD CONSTRUCTION. WE ARE A KEY PLAYER IN DRIVING THIS DEVELOPMENT WITH PIONEERING TECHNOLOGIES. WITH THE SP 1600 SLIPFORM PAVER. A MOBILE ROAD CONSTRUCTION PLANT. EXPERTISE IN HIGHLY AUTOMATED CONCRETE PAVING. FOR DURABLE ROADS OF EXCELLENT DIMENSIONAL STABILITY. THE SP 1600 – PREDESTINED FOR TOP PERFORMANCE.

1 |

Paving 16.0 m wide single-layer or dual-layer concrete slabs

PAVING CONCRETE AT TOP SPEED

The SP 1600 is the flagship product among the large slipform pavers as it paves high-quality concrete slabs at widths of up to 16.0 m and at layer thicknesses of up to 450 mm. In addition, a second complete concrete paving kit is available for integration into the SP 1600 to enable the highly economical paving of dual-layer concrete slabs in a single operation. The multipurpose SP 1600 is capable of paving motorways across the full carriageway width, industrial sites, airport runways and taxiways or other airport areas in single-layer or dual-layer application.

Dual-course paving, as opposed to dual-layer paving, uses different materials for the top and bottom concrete layers – the Wirtgen SP 1600 achieves perfection in both paving methods.

The slipform paver's dowel bar and tie bar inserters are distinctive for their high degree of automation. Oscillating beam and super smoother, burlap and texture curing machine ensure a perfect surface finish of the completed concrete slab.

1 | *The SP 1600 has achieved perfection also in dual-layer concrete paving with a single machine.*

2 | *Precise concrete paving using string-less 3D control meets high quality requirements.*

Single-layer or dual-layer paving with a single machine

IN A SINGLE WORKING PASS

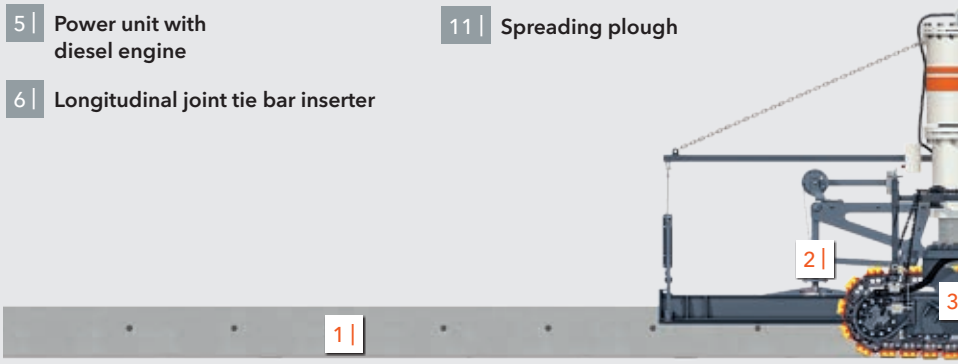
Single-layer concrete paving:
When paving concrete in single-layer application, the material is deposited in front of the paver by mixer trucks and evenly distributed across the entire paving width by a spreading plough. The heavy-duty mould then forms the concrete slab while the paver keeps moving forward. Optimum compaction of the concrete material is ensured by up to 48 electrically driven vibrators emitting high-frequency vibrations.

Dual-layer concrete paving:
In dual-layer concrete paving, inexpensive recycled concrete material is fed to the mould at the front of the SP 1600 to produce the bottom concrete layer. The material for the top concrete layer is fed into a receiving hopper ahead of the SP 1600 and then forwarded onto a belt conveyor for transport to the second paving mould.

A spreading auger in front of the second mould distributes the concrete material for the top layer which is compacted by 32 additional, specially shaped vibrators. The top layer of high-quality concrete is then paved "wet-in-wet" to achieve a perfect bond with the bottom concrete layer.

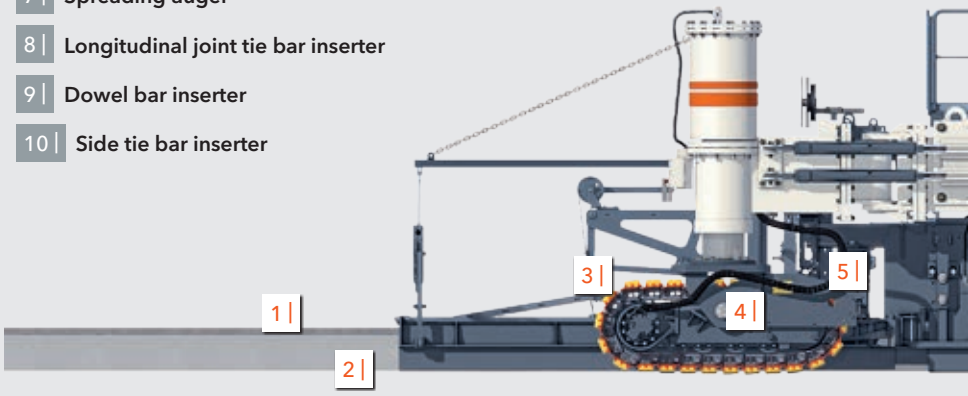
SP 1600 FOR SINGLE-LAYER CONCRETE PAVING

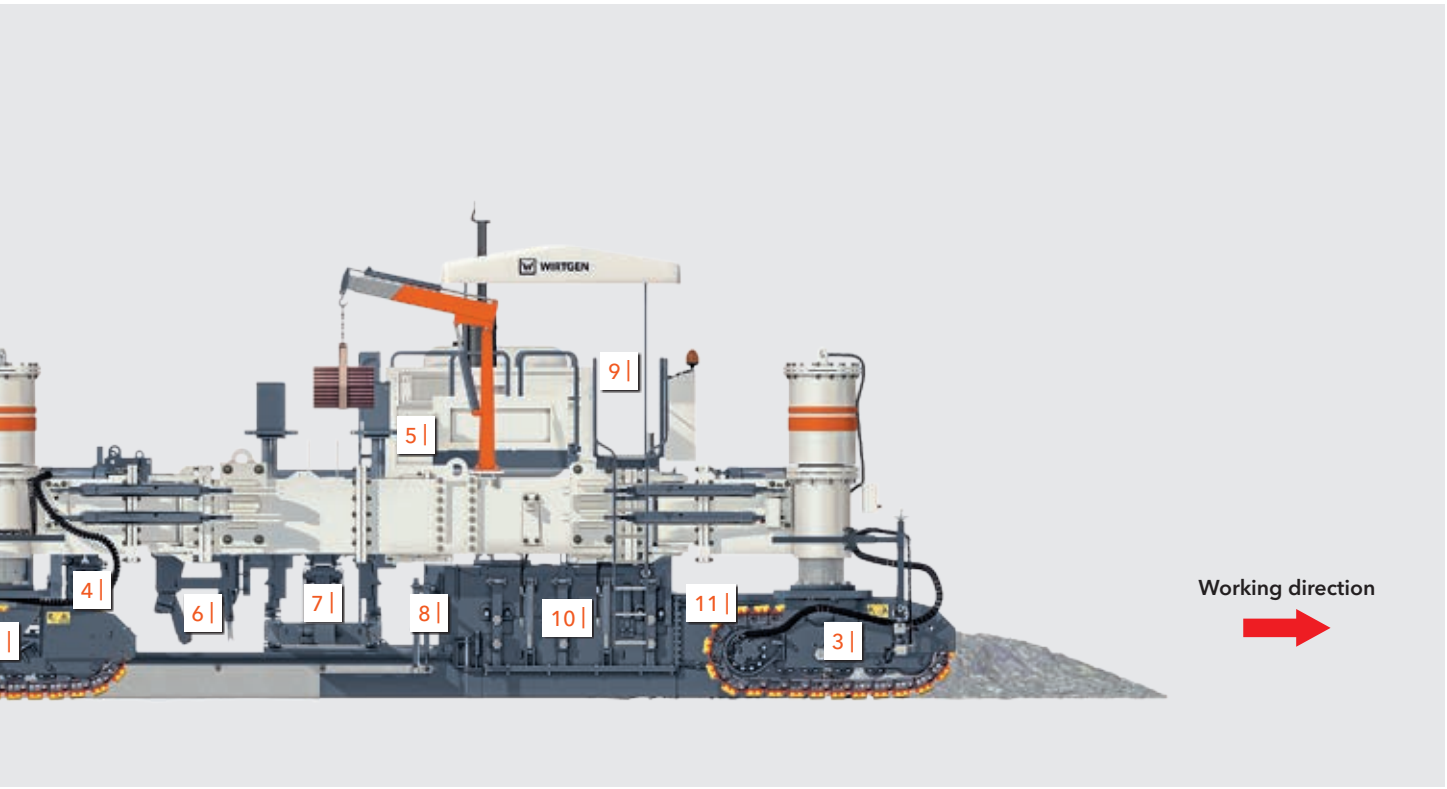
1 | Concrete slab
2 | Super smoother
3 | Steerable and height-adjustable track units
4 | Oscillating beam
5 | Power unit with diesel engine
6 | Longitudinal joint tie bar inserter
7 | Dowel bar inserter
8 | Side tie bar inserter
9 | Operator's platform
10 | Inset paving mould for bottom-layer concrete
11 | Spreading plough



SP 1600 FOR DUAL-LAYER CONCRETE PAVING

1 | Top concrete layer
2 | Bottom concrete layer
3 | Super smoother
4 | Steerable and height-adjustable track units
5 | Oscillating beam
6 | Inset paving mould for top-layer concrete
7 | Spreading auger
8 | Longitudinal joint tie bar inserter
9 | Dowel bar inserter
10 | Side tie bar inserter
11 | Power unit with diesel engine
12 | Operator's platform
13 | Inset paving mould for bottom-layer concrete
14 | Spreading plough
15 | Belt conveyor
16 | Receiving hopper for top-layer concrete




WIRTGEN
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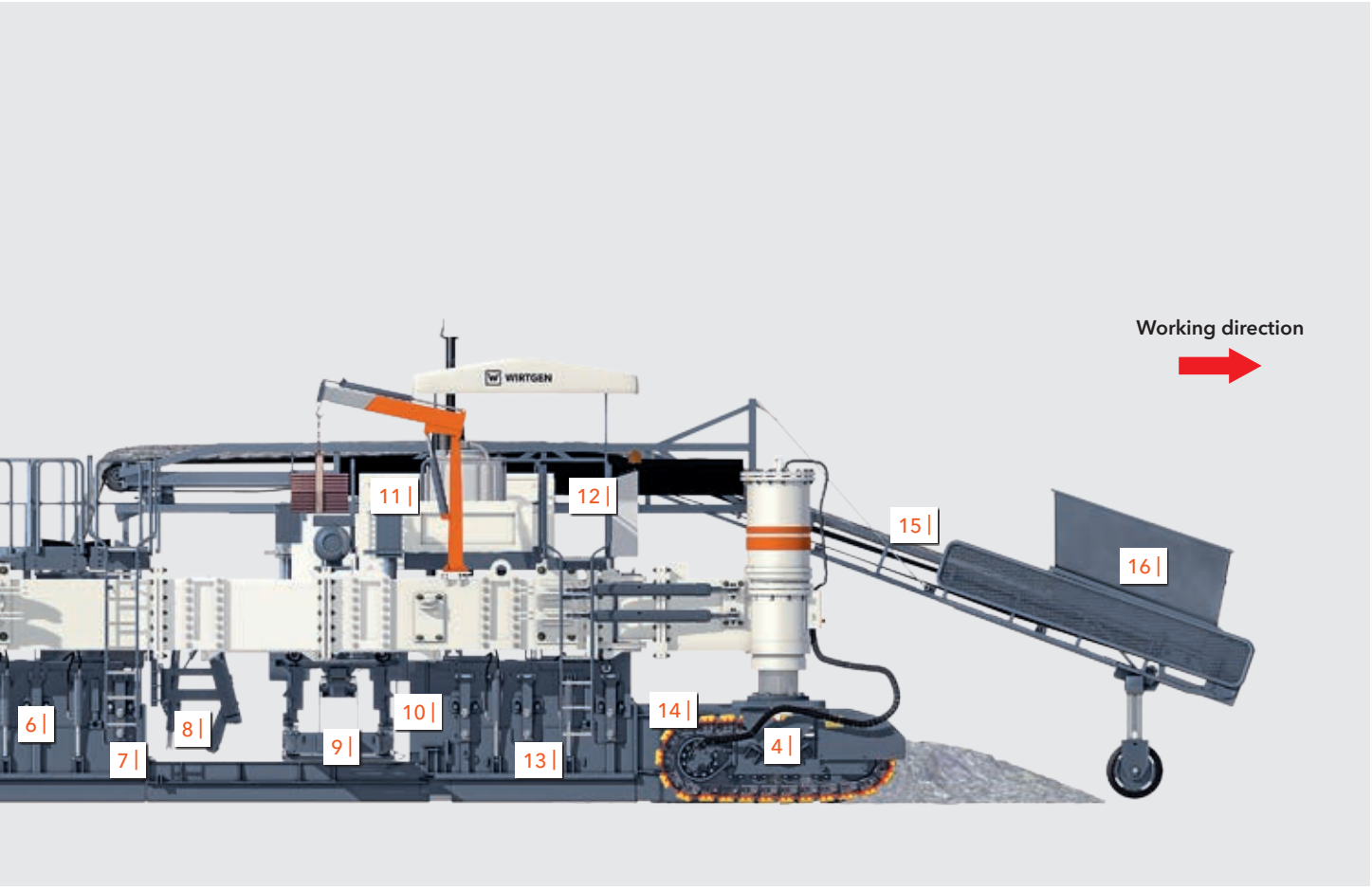
Working direction


WIRTGEN
Working direction
11 |
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1 |

Concrete paving kit of modular design

WIDE RANGE OF APPLICATIONS

The concrete paving kit is of modular design, offering customers maximum flexibility in terms of the paver's range of applications. The machine frame has been designed for a minimum working width of 5.0 m and can be telescoped hydraulically to a width of 7.50 m; installing additional modules enables the SP 1600 to be used for paving concrete slabs at widths of up to 16.0 m.

The concrete is distributed across the entire paving width uniformly by means of a spreading plough. Both the spreading system and the paving mould are of modular design and can be extended in accordance with the paving width.

Dowel bar inserter, longitudinal joint tie bar inserters, side tie bar inserters, oscillating beam and super smoother are available as optional equipment modules. Depending on the paving width, up to 48 vibrators can be integrated for concrete compaction. In addition, the paving kit allows the concrete slab to be produced with a central crown.

2 |

3 |

1 – 2 | *Economical concrete paving at working widths ranging from 5.0 m to 16.0 m.*

3 | *Variable paving thicknesses of up to 450 mm come as a standard feature.*

The SP 1600 gives concrete strength and stability

REINFORCEMENT FOR HIGHLY STRESSED CONCRETE PAVEMENTS

Additional high-tech components can be integrated into the SP 1600 to insert reinforcement into the concrete slabs during the paving operation. These include a dowel bar inserter (DBI), side tie bar inserter and longitudinal joint tie bar inserter.

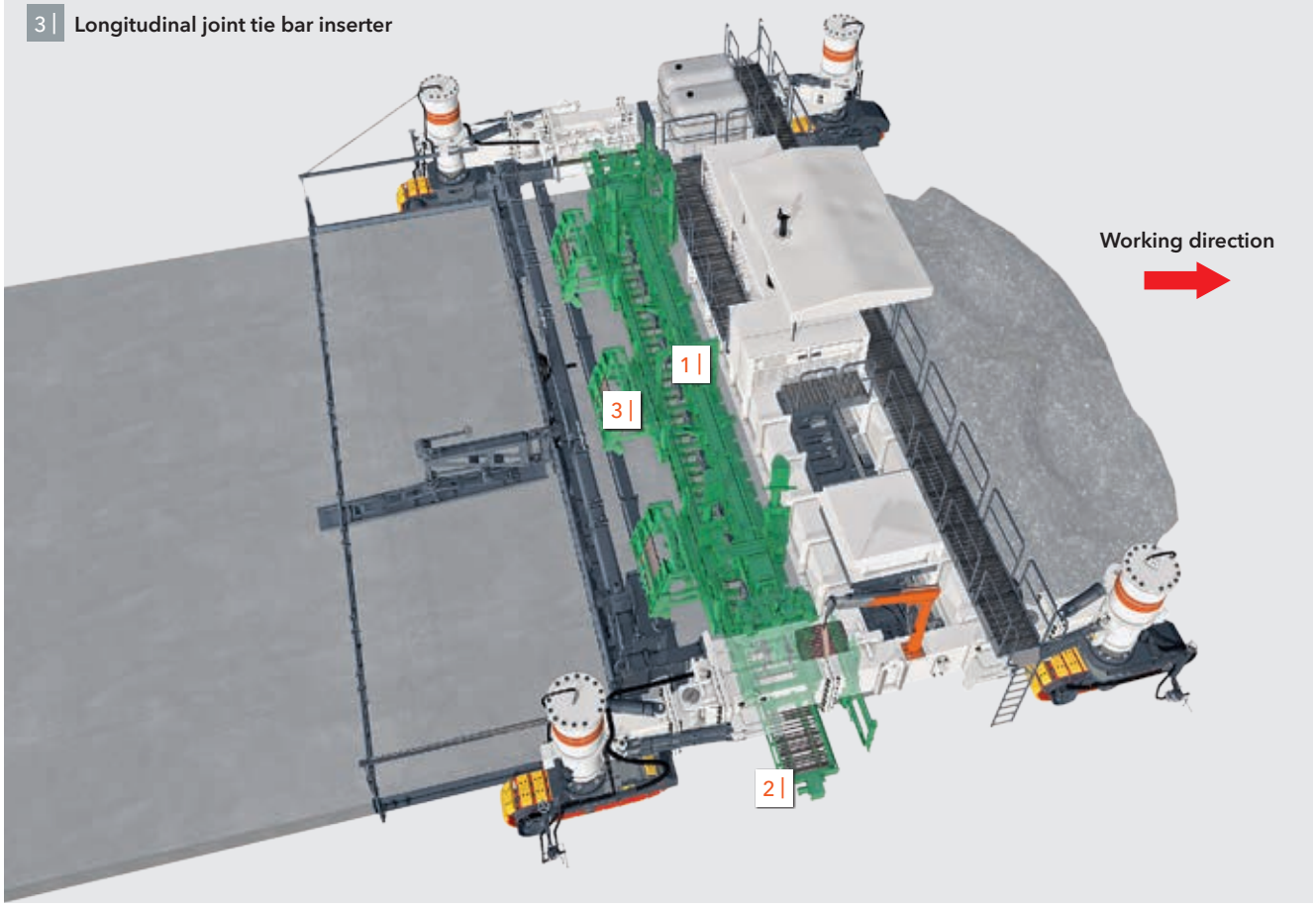
The plastic-coated dowel bars inserted into the transverse joints of highly stressed concrete pavements are used to maintain the level of adjoining slabs while at the same time ensuring the transmission of shear forces from one slab to the next. The integrated dowel bar inserter (DBI) inserts the dowel bars in the correct position. It can move in the direction of travel, meaning that it remains above the position of insertion without interrupting machine travel until the dowel bars have been accurately inserted into the concrete slab. Longitudinal joint tie bars are usually inserted in the middle of the slab's thickness, preventing the slabs from drifting apart at their longitudinal joints. Side tie bars allow the paving of adjacent concrete slabs.

EQUIPMENT FOR THE INSERTION OF REINFORCEMENT:

1 | **Dowel bar inserter**

2 | **Side tie bar inserter**

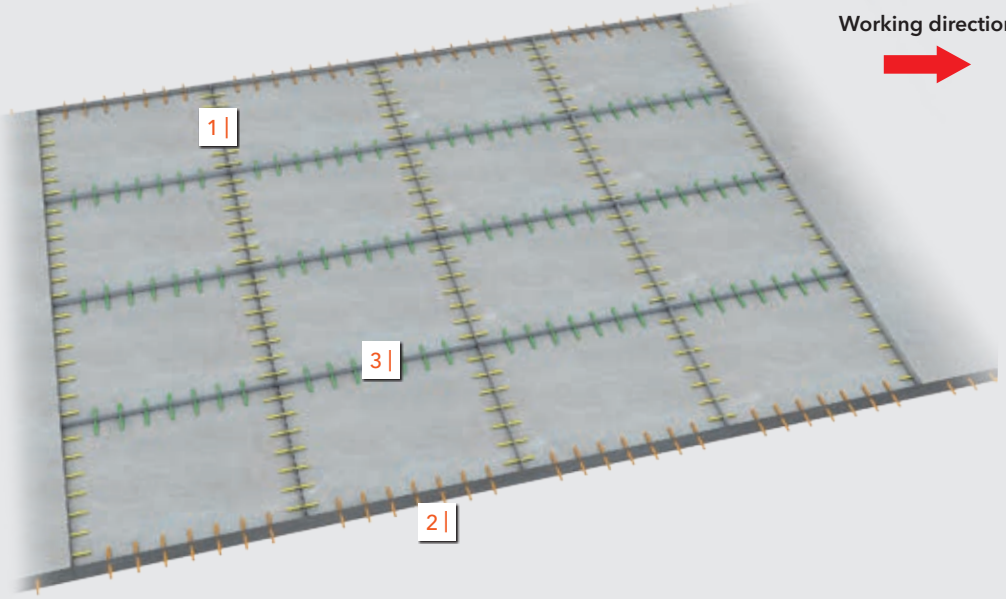
3 | **Longitudinal joint tie bar inserter**



1 | Dowel bar

2 | Side tie bar

3 | Longitudinal joint tie bar



Working direction

1 | *The tie bars inserted by the tie bar inserter prevent the slabs from drifting apart.*

Automated insertion of dowel bars and tie bars

TRIED-AND-TESTED TECHNOLOGY

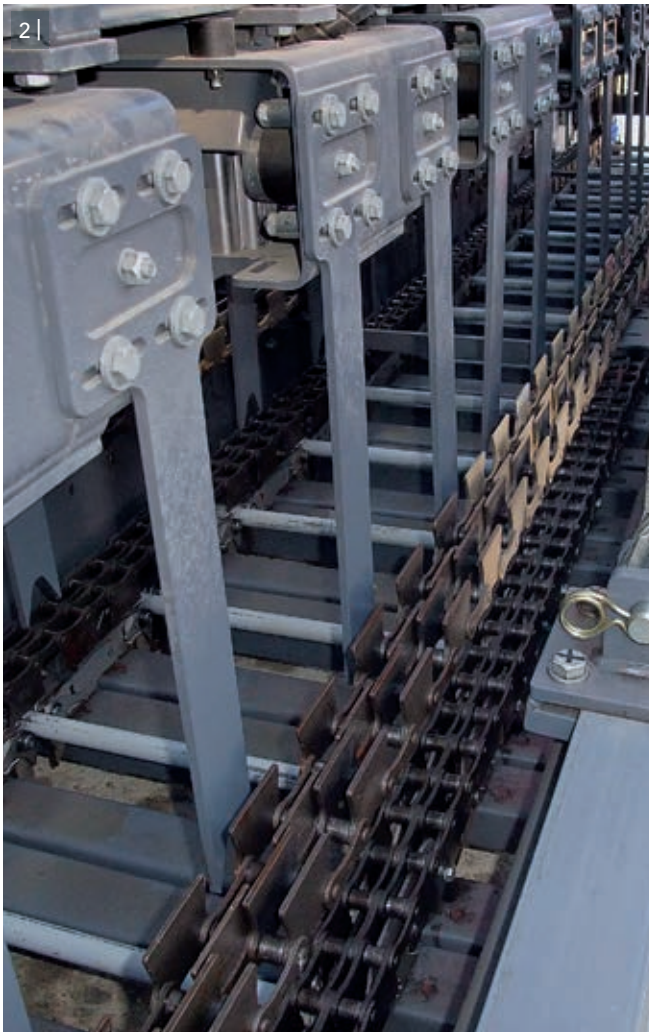
Dowel bars and tie bars of different lengths are inserted into the freshly paved, pre-compacted concrete at selectable intervals and in a fully automated process.

Insertion of the dowel bars parallel to the machine's direction of travel is characterized by an exceptionally high degree of efficiency: to not interrupt the SP 1600's continuous forward movement, the flexibly mounted dowel bar inserter pauses above the position of insertion until the operation has been completed.

The longitudinal joint tie bar inserter inserts longitudinal joint tie bars to reinforce the concrete transverse to the paving direction. The side tie bar inserter inserts side tie bars in the side of the concrete slab.

All insertion processes are monitored electronically which ensures the correct position of all dowel bars and tie bars inserted into the concrete slab. Needless to say that the SP 1600 is also capable of paving concrete on previously laid steel reinforcement or using special mould profiles (such as a sinusoidal mould).

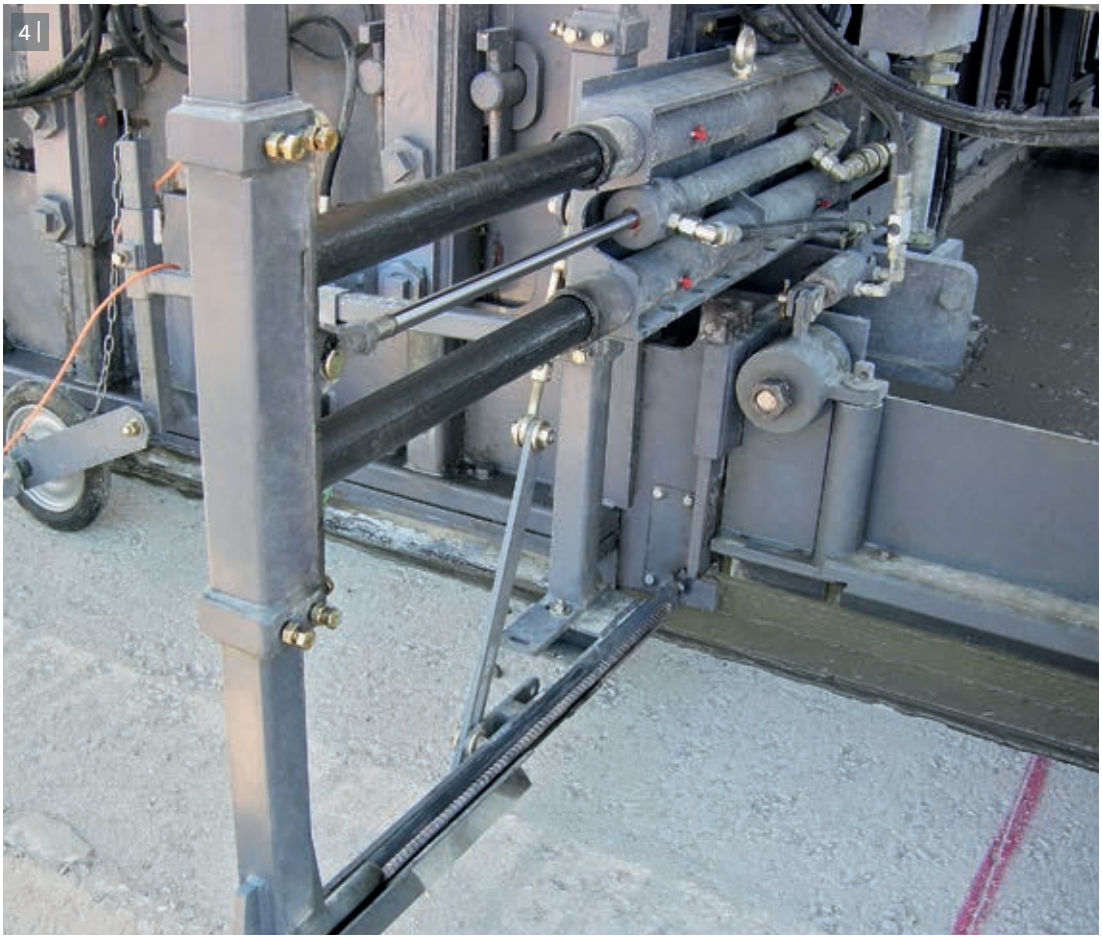
2 |



3 |

Working direction

4 |



2 | *Dowel bars are distributed automatically by means of an intelligently designed chain system.*

3 | *Operation of the dowel bar inserter.*

4 | *Side tie bars enable the paving of adjacent concrete slabs.*

1 | *The super smoother is produced from high-quality material and creates a perfectly smooth surface finish.*

Accurate surface finish for a perfect surface texture

CREATING DIFFERENT PAVEMENT PROPERTIES

The SP 1600 uses innovative tools to give the concrete pavement its final surface finish. As soon as concrete paving has been completed, the eccentrically driven oscillating beam removes any irregularities in the surface caused, for example, during insertion of the dowel bars.

It is followed by the super smoother which effects an oscillating movement transverse to the concrete surface to improve riding comfort. A TCM 95/TCM 95i or TCM 180/TCM 180i texture curing machine follows behind the SP 1600 to produce the specified skid resistance.

Depending on tender specification, the texture curing machine applies a cross broom, burlap or artificial turf to the still moist concrete surface. In a final step, dispersion is sprayed on the surface via the machine's integrated spray bar to prevent evaporation and delay drying of the concrete slab.

It is also possible to produce an exposed aggregate concrete surface or apply a longitudinal broom.

2 | *The heavy-duty oscillating beam removes irregularities in the surface across the full width.*

3 | *The texture curing machine creates a defined texture, for example, by applying a broom finish while spraying dispersion at the same time.*

4 | *Perfectly hardened concrete slabs with excellent skid resistance are produced without fail.*

1 |

Supplementary module for dual-layer concrete paving

PAVING TWO LAYERS IN A SINGLE MACHINE PASS

WIRTGEN offers an intelligently designed supplementary module for the SP 1600 enabling it to pave impeccable dual-layer concrete slabs. The module consists of an additional concrete paving kit comprising a belt conveyor system, spreading auger and paving mould with special vibrators. The second mould is used to pave a high-quality top layer, for example, a low-noise exposed aggregate concrete pavement, on top of the bottom-layer concrete.

The supplementary module is installed right behind the dowel bar inserter. Oscillating beam and super smoother, which are part of the SP 1600's basic equipment package, are mounted behind the supplementary module. Final curing is similar to that of the single-layer paving application.

Needless to say that all components of the supplementary module are of modular design and can be adjusted to paving widths ranging from 5.0 m to 16.0 m.

1 | *Top-layer concrete is transported to the second mould via a receiving hopper and belt conveyor.*

2 | *Less expensive concrete is mostly used for the bottom layer in dual-layer concrete paving.*

Technical specification

	SP 1600
Range of applications	Slab paving
Concrete spreading	
Spreading plough for working width	5,000 to 16,000 mm
Slab paving equipment for single-layer concrete paving	
Working width	5,000 to 16,000 mm *1
Paving thickness	0 to 450 mm *1
Transverse camber adjustment	0 to 3%
Dowel bar inserter	
Working width	5,000 to 16,000 mm *2
Diameter of dowel bars	25 to 40 mm *2
Dowel bar length	500 to 600 mm *2
Longitudinal joint tie bar inserter	
Diameter of tie bars	12 to 25 mm *3
Tie bar length	400 to 800 mm or 800 to 1,200 mm *3
Side tie bar inserter	
Diameter of tie bars	16 to 20 mm *3
Tie bar length	750 to 1,200 mm *3
Vibrating equipment for single-layer concrete paving	
Connectors for electric vibration	24, can be extended to 48 (option)
Number of electric vibrators, curved	16, can be extended to 48 (option)
High-frequency generator	80 kVA
Oscillating beam	
Working width	5,000 to 16,000 mm
Super smoother	
Working width	5,000 to 16,000 mm
Additional slab paving equipment for dual-layer concrete paving	
Working width	5,000 to 16,000 mm
Paving thickness	0 to 450 mm
Transverse camber adjustment	0 to 3%
Additional vibrating equipment for dual-layer concrete paving	
Connectors for electric vibration	24, can be extended to 32 (option)
Number of electric T-vibrators	10, can be extended to 32 (option)
High-frequency generator	40 kVA

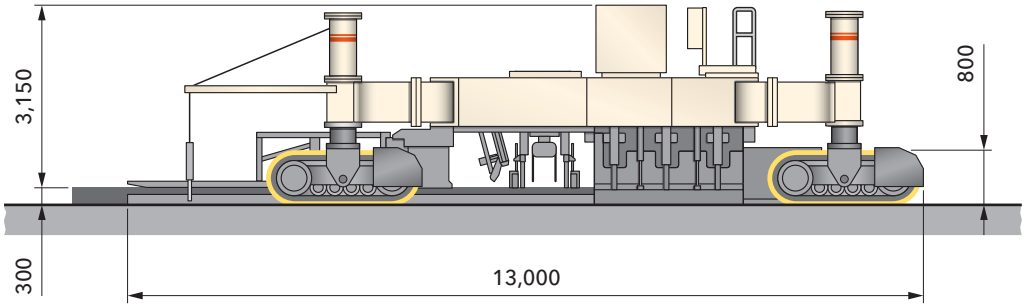
*1 = Please consult factory for other special applications
*2 = Applicable for the range of dowel bar dimensions specified; for any other dimensions, please consult factory; the dowel bar inserters will be customized in accordance with pre-selected customer requirements
*3 = The range of tie bar dimensions specified above can be covered; for any other dimensions, please consult factory; the longitudinal joint tie bar and side tie bar inserters will be customized in accordance with pre-selected customer requirements

	SP 1600
Engine	
Engine manufacturer	Caterpillar
Type	C11 ATAAC
Cooling	water
Number of cylinders	6
Rated power at 2,100 min^{-1}	313 kW / 420 HP / 426 PS
Displacement	11,100 cm^3
Fuel consumption, full load	80,1 l / h
Fuel consumption in field mix	53,4 l / h
Emission standards	EU Stage 3a / US Tier 3
Electrical system	24 V
Filling capacities	
Fuel tank	800 l
Hydraulic oil tank	505 l
Water tank (option)	1,100 l
Driving characteristics	
Operating speed	0 to 5 m / min
Travel speed	0 to 20 m / min
Track units	
Number	4
Steering angle	± 30°
Dimensions (L x W x H)	2,550 x 500 x 800 mm
Height adjustment of machine	
Max. hydraulic height adjustment	950 mm
Transport dimensions (L x W x H)	
Machine, working width 16,000 mm	22,500 mm x 3,500 mm x 3,150 mm
Machine weights *4	
Operating weight, CE *5 of basic machine including options for single-layer paving operations, working width 10,000 mm	89,000 kg
Operating weight, CE *5 of basic machine including options for single-layer paving operations, working width 16,000 mm	106,000 kg
Operating weight, CE *5 of basic machine including options for dual-layer paving operations, working width 10,000 mm	118,000 kg
Operating weight, CE *5 of basic machine including options for dual-layer paving operations, working width 16,000 mm	140,000 kg

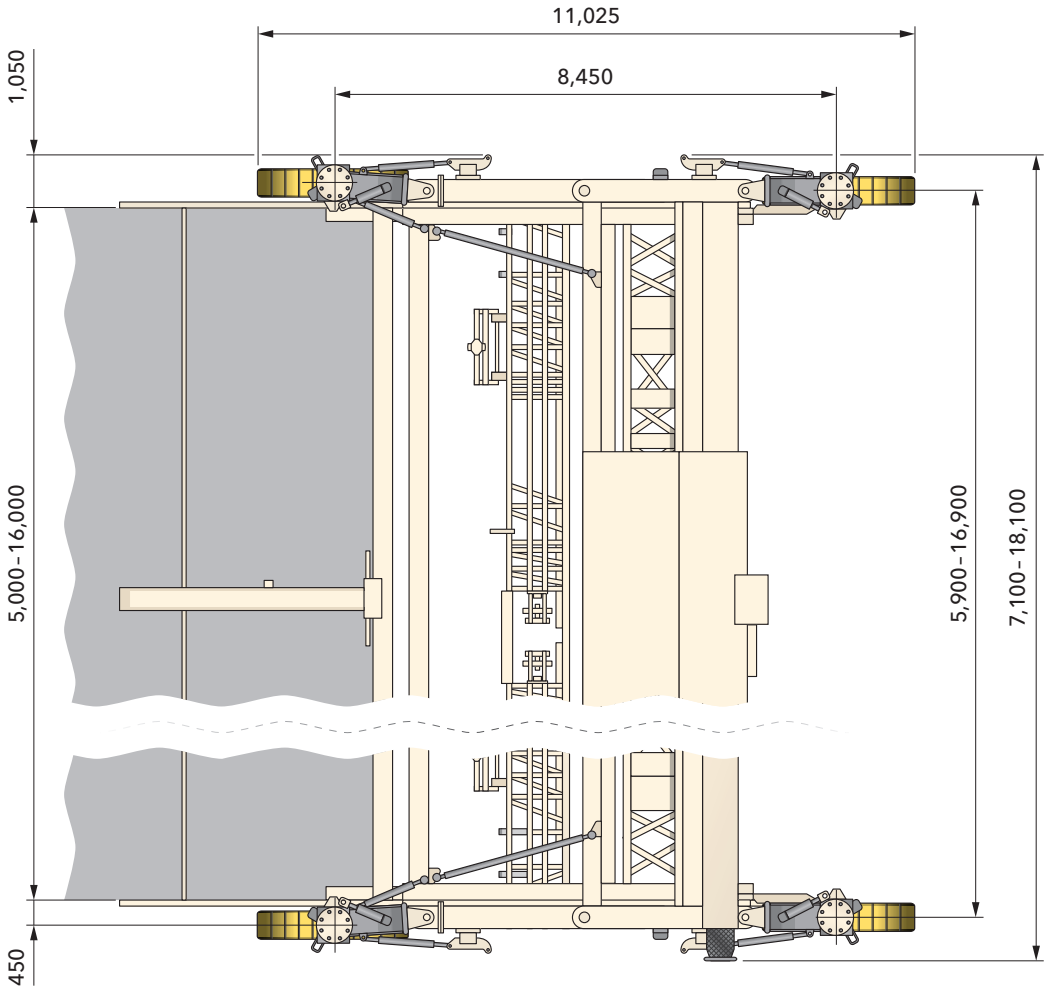
*4 = Weights depend on the machine's range of equipment and working width
*5 = Weight of machine with half-full water tank, half-full fuel tank, driver (75 kg) and on-board tools

Dimensions

Slipform paver SP 1600 for single-layer concrete paving operations equipped with dowel bar inserter, longitudinal joint tie bar inserter, oscillating beam and super smoother

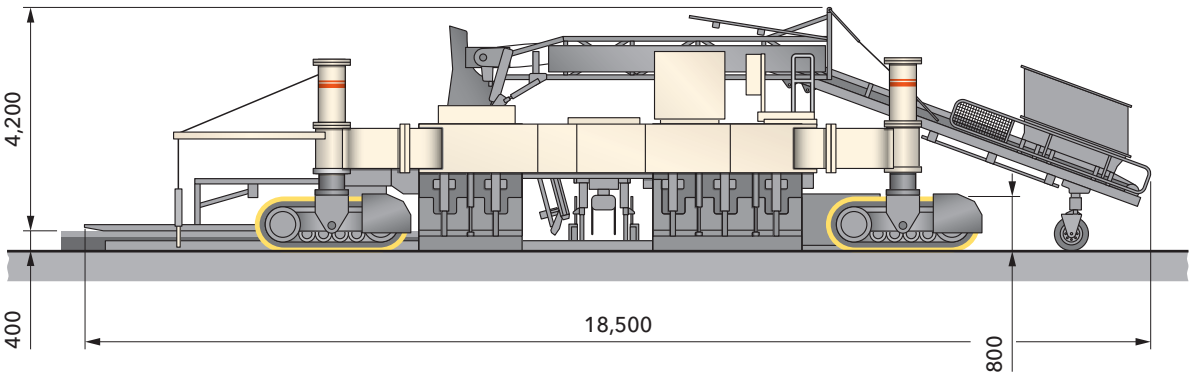


Working direction

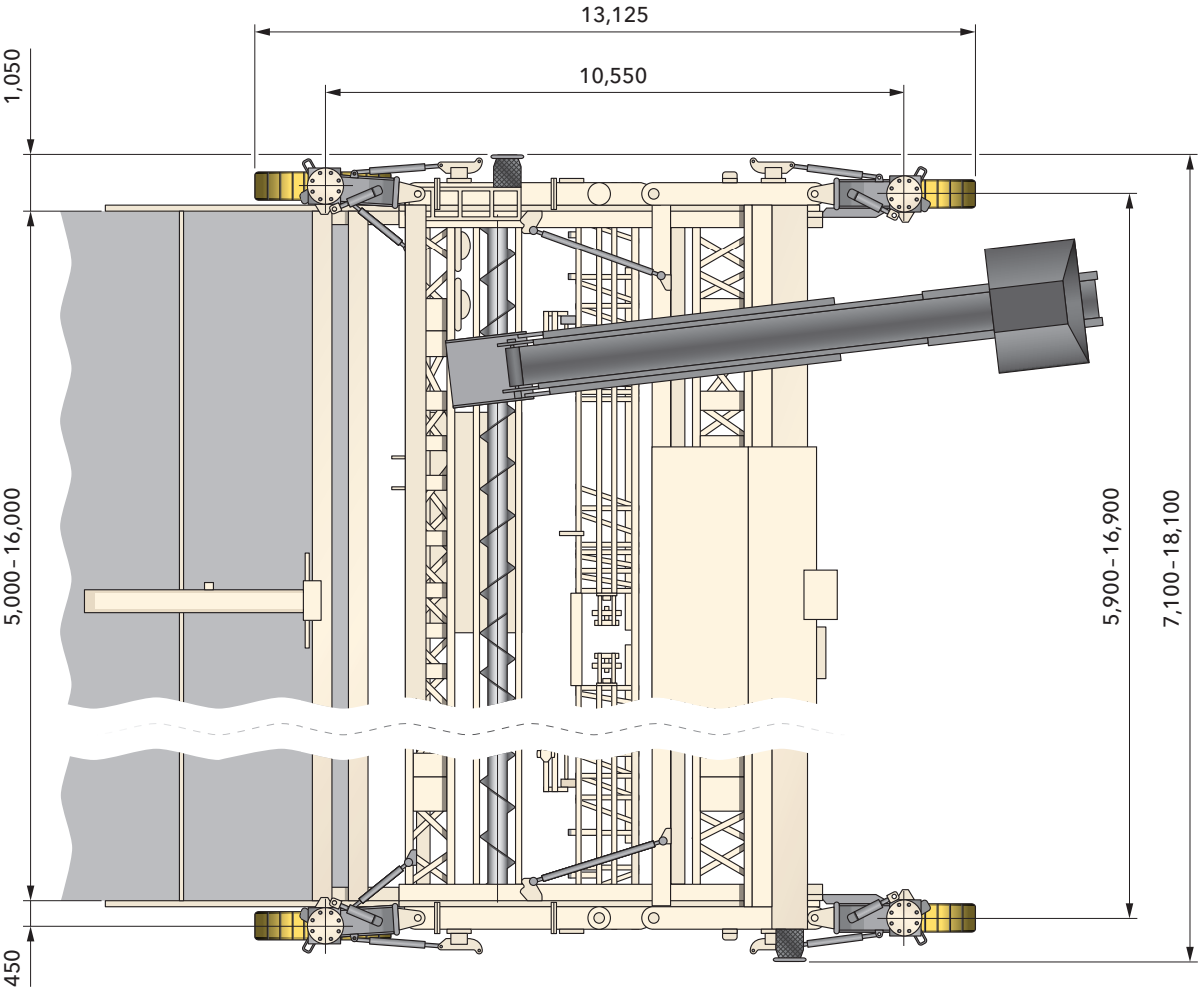


Dimensions in mm

Slipform paver SP 1600 for dual-layer concrete paving operations equipped with dowel bar inserter, longitudinal joint tie bar inserter, oscillating beam and super smoother



Working direction



Dimensions in mm

Standard equipment

Base machine	
800 l fuel tank	■
505 l hydraulic oil tank	■
Electrical system (24 V)	■
Separate hydraulic oil cooler	■
Main transmission with four output shafts	■
Two hydraulic pumps controlled by servo valve, closed circuit, for the advance drive (2 independent circuits)	■
A hydraulic pump controlled by servo valve, closed circuit, for driving the spreader plough	■
A hydraulic pump controlled by servo valve, closed circuit, for driving the high-frequency generator	■
Two pressure-controlled pumps, open circuit, for all cylinder functions and additional devices	■
A geared pump for the oil cooler fan	■
High frequency generator, 80 kVA, 110 V, 200 Hz, with hydraulic drive motor, for max. 48 vibrators for concrete compacting	■
Main frame and height adjustment	
In robust configuration (telescoping by 2.5 m right) for holding paving moulds between the crawler units from 5 m to 7.5 m wide.	■
Paving moulds up to 16 m working width can be mounted by attaching additional frame extension elements	■
The four crawler units are attached to mechanically operated pivot arms	■
Crawler unit and crawler unit connections	
Four hydraulically driven crawler units, 2.55 m long with 0.5 m wide PU track pads, transmission ratio 1:409	■
Hydraulic motors with two speed ranges	■
Infinitely variable paving sped from 0–5 m/min	■
Infinitely variable travelling speed from 0–20 m/min	■
Four levelling cylinders with 0.95 m stroke	■

■ = Standard equipment
▩ = Standard equipment, replaceable with optional equipment
□ = Optional equipment

Machine control and levelling and steering	
Digital control system with LCD display which displays all necessary information for the user on a menu and allows parameter settings, e.g. free choice of languages (D / GB / F / E / NL)	■
Proportional electrohydraulic levelling and steering by PLC system including four (4) levelling sensors, two (2) steering sensors	■
Sensor mountings, adjustable in height and range	■
Concrete spreading for road surface paving	
Spreader plough 5 m	■
Vibration	
16x bended vibrators (D76), electrically driven	■
Concrete equipment for carriageway paving	
Paving mould, base 5 m	▢
Oscillating beam 5 m	▢
Super smoother 5 m	▢
Others	
Lighting package with 4 halogen headlights 24 V	■
Paint standard cream white RAL 9001	▢

■ = Standard equipment
▢ = Standard equipment, replaceable with optional equipment
□ = Optional equipment

Optional equipment

Main frame and height adjustment	
Frame extension elements 2.50 m left	☐
Frame extension elements 2.75 m left	☐
Frame extension elements 2.50 m right	☐
Chassis extension when using a dowel bar inserter	☐
Chassis extension for two-layer paving	☐
Chassis crossmember for upper layer 5 m	☐
Chassis crossmember extension element for upper layer 0.25 m	☐
Chassis crossmember extension element for upper layer 0.50 m	☐
Chassis crossmember extension element for upper layer 0.75 m	☐
Chassis crossmember extension element for upper layer 1.00 m	☐
Chassis crossmember extension element for upper layer 1.50 m	☐
Chassis crossmember extension element for upper layer 2.00 m	☐
Chassis crossmember extension element for upper layer 2.75 m	☐
Chassis crossmember extension element for upper layer 3.50 m	☐
Machine control and levelling and steering	
Slab tracer, 2 pcs	☐
Slab tracer, 4 pcs	☐
Pre-equipment for 3D levelling	☐
Concrete spreading for road surface paving	
Spreader plough - extension element 2.50 m - left	☐
Spreader plough - extension element 2.75 m - left	☐
Spreader plough - extension element 2.50 m - right	☐
Spreader plow - extension element 0.25 m	☐
Spreader plow - extension element 0.50 m	☐
Spreader plough - extension element 0.60 m	☐
Spreader plow - extension element 0.75 m	☐
Spreader plow - extension element 1.00 m	☐
Vibration	
Bent vibrator D76, electrically driven	☐
Connection box for 25–36 vibrators	☐
Connection box for 25–48 vibrators	☐
Concrete equipment for carriageway paving	
Automatic metering gate control for concrete paving mould	☐
Paving mould, base 5.00 m - with crown profile	☐
Paving mould - extension element 0.25 m	☐

■ = Standard equipment
▩ = Standard equipment, replaceable with optional equipment
☐ = Optional equipment

Concrete equipment for carriageway paving	
Paving mould - extension element 0.50 m	☐
Paving mould - extension element 0.60 m	☐
Paving mould - extension element 0.75 m	☐
Paving mould - extension element 1.00 m	☐
Paving mould - extension element 1.375 m	☐
Paving mould - extension element 1.50 m	☐
Paving mould - extension element 2.00 m	☐
Hydraulic height adjustment of the paving moulds, only for paving two-layer concrete surfacing	☐
Oscillating beam 5 m, with crown profile	☐
Oscillating beam - extension element 0.25 m	☐
Oscillating beam - extension element 0.50 m	☐
Oscillating beam - extension element 0.60 m	☐
Oscillating beam - extension element 0.75 m	☐
Oscillating beam - extension element 1.00 m	☐
Oscillating beam - extension element 1.375 m	☐
Oscillating beam - extension element 1.50 m	☐
Oscillating beam - extension element 2.00 m	☐
Additional support beam for oscillating beam with working widths from 10 – 12 m	☐
Additional support beam for oscillating beam with working widths from 12 – 14 m	☐
Additional support beam for oscillating beam with working widths from 14 – 16 m	☐
Super smoother - extension element 0.25 m	☐
Super smoother - extension element 0.50 m	☐
Super smoother - extension element 0.60 m	☐
Super smoother - extension element 0.75 m	☐
Super smoother - extension element 1 m	☐
Super smoother - extension element 1.375 m	☐
Super smoother - extension element 1.5 m	☐
Super smoother - extension element 2 m	☐
Electrical control for dowel bar inserter (DBI) and tie-bar inserter (TBI)	☐
Automatic dowel inserter without crown profile, basic 5.00 m	☐
Automatic dowel inserter with crown profile, basic 5.00 m	☐
Dowel inserter (DBI) - extension element 0.25 m	☐
Dowel inserter (DBI) - extension element 0.50 m	☐
Dowel inserter (DBI) - extension element 0.60 m	☐
Dowel inserter (DBI) - extension element 0.75 m	☐

■ = Standard equipment
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☐ = Optional equipment

Optional equipment

Concrete equipment for carriageway paving	
Dowel inserter (DBI) - extension element 1.00 m	☐
Dowel inserter (DBI) - extension element 1.50 m	☐
Dowel inserter (DBI) - extension element 2.00 m	☐
Base group for dowel bar inserter (DBI) for paving width 5.00 m	☐
Base group for dowel bar inserter (DBI) for paving width 6.00 m	☐
Base group for dowel bar inserter (DBI) for paving width 7.00 m	☐
Base group for dowel bar inserter (DBI) for paving width 8.00 m	☐
Base group for dowel bar inserter (DBI) for paving width 9.00 m	☐
Base group for dowel bar inserter (DBI) for paving width 10.00 m	☐
Base group for dowel bar inserter (DBI) for paving width 11.00 m	☐
Base group for dowel bar inserter (DBI) for paving width 12.00 m	☐
Base group for dowel bar inserter (DBI) for paving width 13.0 m	☐
Base group for dowel bar inserter (DBI) for paving width 14.00 m	☐
Base group for dowel bar inserter (DBI) for paving width 15.00 m	☐
Base group for dowel bar inserter (DBI) for paving width 16.00 m	☐
Longitudinal tie-bar inserter, max. ø 12–25 mm, length 800–1,200 mm	☐
Additional longitudinal tie-bar inserter, max. ø 12–25 mm, length 800–1,200 mm	☐
Longitudinal tie-bar inserter, max. ø 12–25 mm, length 400–800 mm	☐
Additional longitudinal tie-bar inserter, max. ø 12–25 mm, length 400–800 mm	☐
Mounting kit for mounting a tie-bar inserter on the dowel bar inserter	☐
Side tie-bar inserter for straight tie-bar, max. ø 32 mm, length 1,000 mm	☐
Ancillary parts for mounting the side tie-bar inserter on the dowel bar inserter (DBI)	☐
Ancillary parts for mounting the side tie-bar inserter for two-layer concrete paving	☐
Concrete spreading	
Belt conveyor for upper layer	☐
Belt conveyor for transverse transport of the upper layer	☐
Concrete equipment for dual-layer concrete paving	
Power supply for operating the paving moulds for upper layer	☐
Horizontal T-vibrator, electrically driven, 0.50 m wide	☐
Connection box for 25–36 vibrators	☐
Spreader auger upper layer - basic width 5 m	☐
Spreader auger - extension element 0.25 m, clockwise pitch	☐
Spreader auger - extension element 0.50 m, clockwise pitch	☐
Spreader auger - extension element 0.60 m, clockwise pitch	☐
Spreader auger - extension element 0.75 m, clockwise pitch	☐

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Concrete equipment for dual-layer concrete paving	
Spreader auger - extension element 1 m, clockwise pitch	☐
Spreader auger - extension element 1.375 m, clockwise pitch	☐
Spreader auger - extension element 1.50 m, clockwise pitch	☐
Spreader auger - extension element 2 m, clockwise pitch	☐
Spreader auger - extension element 0.25 m, counterclockwise pitch	☐
Spreader auger - extension element 0.50 m, counterclockwise pitch	☐
Spreader auger - extension element 0.60 m, counterclockwise pitch	☐
Spreader auger - extension element 0.75 m, counterclockwise pitch	☐
Spreader auger - extension element 1 m, counterclockwise pitch	☐
Spreader auger - extension element 1.375 m, counterclockwise pitch	☐
Spreader auger - extension element 1.50 m, counterclockwise pitch	☐
Spreader auger - extension element 2 m, counterclockwise pitch	☐
Paving mould for upper layer, basic width 5 m	☐
Paving mould - extension element for upper layer 0.25 m	☐
Paving mould - extension element for upper layer 0.50 m	☐
Paving mould - extension element for upper layer 0.60 m	☐
Paving mould - extension element for upper layer 0.75 m	☐
Paving mould - extension element for upper layer 1.00 m	☐
Paving mould - extension element for upper layer 1.375 m	☐
Paving mould - extension element for upper layer 1.50 m	☐
Paving mould - extension element for upper layer 2.00 m	☐
Operator´s stand	
Weather canopy for operator's stand	☐
Weather canopy for operator's stand upper layer	☐
Others	
Paint in one special colour (RAL)	☐
Paint in two special colours (RAL)	☐
Paint in maximum two special colours with substructure in special colour (RAL)	☐
High-pressure cleaning system, 1,100 l	☐
Electric cabinet ventilation	☐
4 halogen headlights 110 V, 500 W	☐
Crane system, hydraulic drive	☐
Second tensioning winch for levelling the machine using two wire ropes	☐
Daily rate for startup	☐
Wire tensioning system, complete with 1,000 m steel wire	☐

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