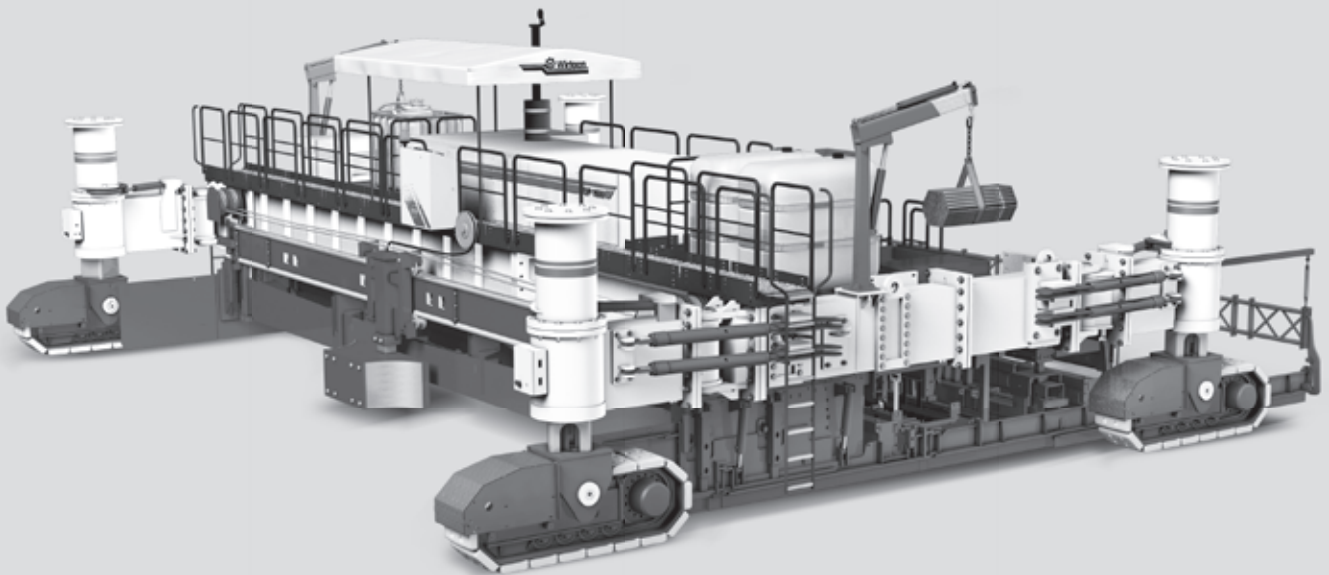




Technical specification

Slipform Paver SP 1600



Technical specification

	Slipform paver SP 1600
Range of applications	Slab paving
Concrete spreading	
Spreading plough for working width	5,000–16,000 mm
Slab paving equipment for single-layer concrete paving	
Working width	5,000–16,000 mm ^{*1}
Paving thickness	0–450 mm ^{*1}
Transverse camber adjustment	0–3%
Dowel bar inserter	
Working width	5,000–16,000 mm ^{*2}
Diameter of dowel bars	25–40 mm ^{*2}
Dowel bar length	500–600 mm ^{*2}
Longitudinal joint tie bar inserter	
Diameter of tie bars	16–20 mm ^{*3}
Tie bar length	750–1,200 mm ^{*3}
Side tie bar inserter	
Diameter of tie bars	16–20 mm ^{*3}
Tie bar length	750–1,200 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	5,000–16,000 mm
Super smoother	
Working width	5,000–16,000 mm
Additional slab paving equipment for dual-layer concrete paving	
Working width	5,000–16,000 mm
Paving thickness	0–450 mm
Transverse camber adjustment	0–3%
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

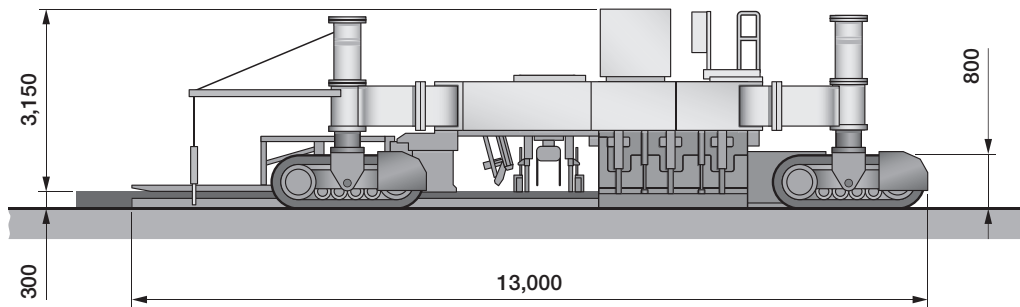
^{*3} = The range of tie bar dimensions specified above can be covered; for any other dimensions, please consult factory; the longitudinal joint tie bar and side tie bar inserters will be customized in accordance with pre-selected customer requirements

	Slipform paver 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	EC 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	0–5 m/min
Travel speed	0–20 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

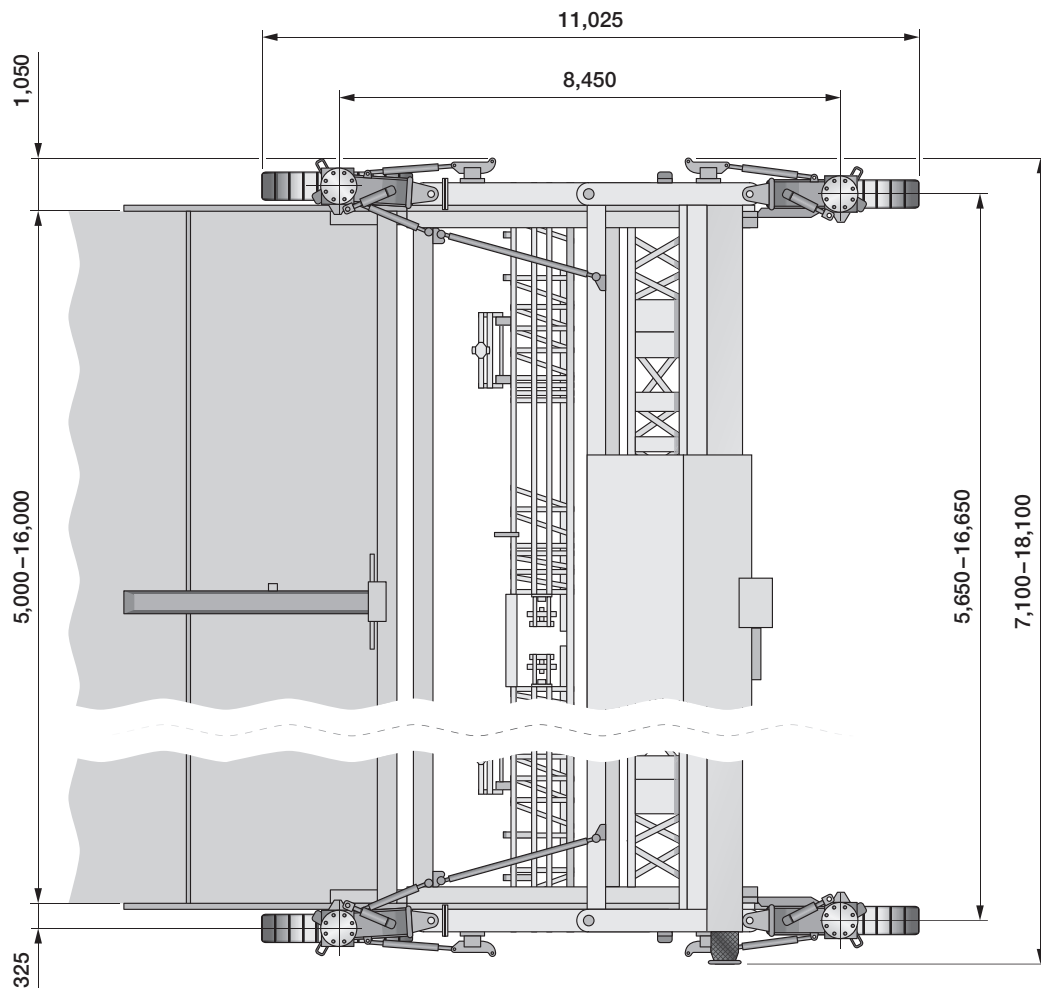
^{*4} = Weights depend on the machine's range of equipment and working width

^{*5} = Weight of machine with half-full water tank, half-full fuel tank, driver (75 kg) and on-board tools

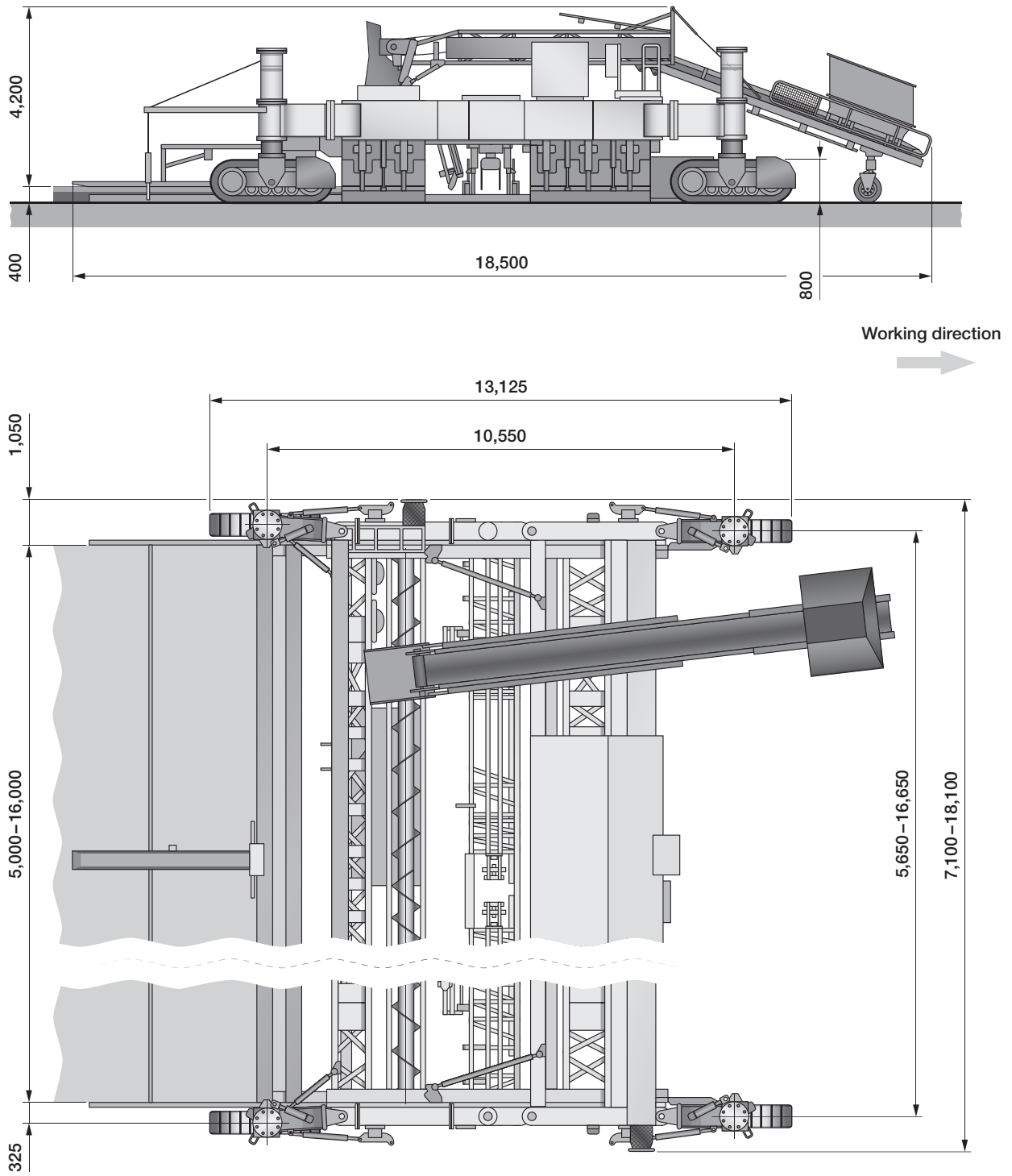
Slipform paver SP 1600 for single-layer concrete paving operations equipped with dowel bar inserter, longitudinal joint tie bar inserter, oscillating beam and super smoother
Dimensions in mm



Working direction



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
 Dimensions in mm



Equipment features of slipform paver SP 1600

Equipment features of slipform paver SP 1600	
Concrete paving equipment	
Spreading plough, working width 5,000 mm	■
Spreading plough extension elements for working widths of up to 16,000 mm	□
Slab paving mould, working width 5,000 mm	■
Slab paving mould extension elements for working widths of up to 16,000 mm, optionally including transverse camber	□
Oscillating beam, working width 5,000 mm	■
Oscillating beam extension elements for working widths of up to 16,000 mm, optionally including transverse camber	□
Super smoother, working width 5,000 mm	■
Super smoother extension elements for working widths of up to 16,000 mm	□
Dowel bar inserter (DBI), working width 5,000 mm	■
Dowel bar inserter (DBI) extension elements for working widths of up to 16,000 mm, optionally including transverse camber	□
Longitudinal joint tie bar inserter	□
Side tie bar inserter(s) for straight or curved tie bars	□
Extension module for paving dual-layer concrete slabs (receiving hopper, belt conveyor for top-layer concrete, spreading auger suitable for modular extension to a working width of up to 16,000 mm)	□
Various sideplate profiles	□
Hydraulically driven hoisting crane for dowel bar and tie bar packages	□
Vibration	
80-kVA high-frequency generator (for bottom-layer concrete)	■
16 connectors for electric vibration (for bottom-layer concrete)	■
Max. 48 connectors for electric vibration (for bottom-layer concrete)	□
16 electric vibrators, curved (for bottom-layer concrete)	■
Max. 48 electric vibrators, curved (for bottom-layer concrete)	□
40-kVA high-frequency generator (for top-layer concrete)	□
Max. 32 connectors for electric vibration (for top-layer concrete)	□
Max. 32 electric T-vibrators (for top-layer concrete)	□
Machine control	
Additional steering function for precise positioning of machine along a stringline	■
“Quick start” comfort feature starts all necessary paving functions	■
PLC controlled machine functions	■

■ = standard equipment

□ = optional equipment

Equipment features of slipform paver SP 1600

Equipment features of slipform paver SP 1600	
Operator's platform	
Walk-through operator's platform	■
Comfort control panel with switches designed in line with field requirements	■
Digital screen for displaying all major operating parameters and keying in job parameters	■
Control panel cover	■
Canopy	□
Ventilation of control cabinet	□
Levelling	
Automatic levelling system	■
Four level sensors	■
Two steering sensors	■
2 or 4 slab tracers for sensing along a reference surface	□
Sensors for steering control, adjustable in both height and range	■
Stringline tensioning system	□
Tensioning winch	□
Track units and height adjustment	
4 track units	■
4 pivoting legs for the front and rear track units	■
Track units pivoting about 90° for transport	■
3-fold level control with high-precision servo valves	■
Hydraulic height adjustment, 950 mm	■
Extremely wear-resistant polyurethane track pads	■
Lighting system	
Lighting package including 4 halogen spotlights	■
Lighting package including 6 floodlights (110 V)	□
Miscellaneous	
Standard painting in Wirtgen white with orange stripes	■
Special painting in one or several colours	□
High-pressure water cleaner including 1,100-litre water tank	□
Comprehensive toolkit in lockable toolbox	■
Comprehensive operating manual and machine documentation	■

■ = standard equipment
□ = optional equipment



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