

The benchmark for perfect concrete paving in the 12-m class. **Slipform Pavers** SP 124 | SP 124i | SP 124 L | SP 124 Li

At a glance: outstanding features of the SP 124/SP 124i/SP 124 L/SP 124 Li

Machine concept

11 HEAVY-DUTY MACHINE DESIGN

The heavy-duty machine design guarantees consistently high performance rates in concrete paving as well as precise paving results even in difficult site conditions.

21 FULLY MODULAR MACHINE LAYOUT

The paver's fully modular design is synonymous with flexible modification, easy retrofitting of optional equipment features and application-specific adjustment to site conditions.

3 INTELLIGENT TRANSPORT CONCEPT

Compact dimensions and minimum modification requirements ensure ease of loading and cost-effective transport. Depending on the paver's configuration, the dowel bar inserter or oscillating beam, super smoother and concrete spreading equipment can remain mounted on the machine during transport.

Concrete equipment

4 EXCEPTIONAL FLEXIBILITY IN CONCRETE PAVING

The slipform paver achieves perfection in the highly precise paving of standard concrete slabs at widths ranging from 4.5 m to 12.0 m and layer thicknesses of up to 450 mm.

5 PROVEN SLAB PAVING MOULD

The machine can be fitted with 910 wm series metric inset slab paving moulds which come with wearing pan as standard and crown as an optional feature.

61 MACHINE-INTEGRATED INSERTION OF STEEL REINFORCEMENT

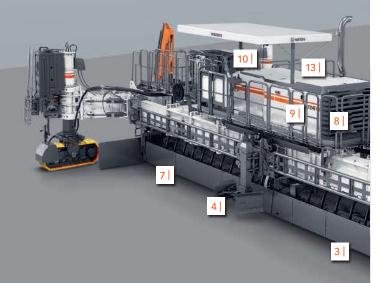
A self-loading dowel bar inserter with fully automatic dowel bar magazine, tie bar inserter(s) and side tie bar inserter(s) are available in accordance with customer requirements.

71 ALTERNATIVE COMPACTION TECHNOLOGY

The machine can be equipped with a hydraulic or electric vibrator drive to comply with site requirements. It comes with 24 hydraulic connectors in standard design (optionally 30 or 36) but can optionally be fitted with 26 or 34 electric connectors.

SP 124 / SP 124i

- > Four hydraulic pivoting legs in the standard equipment package
- > Modification for transport by pivoting in the pivoting legs
- > Maximum flexibility regardless of site conditions



Engine technology and operation

8 EFFICIENT ENGINE MANAGEMENT

The ECO mode feature automatically adjusts the engine output to current performance requirements, thus ensuring diesel efficiency and low noise emissions.

Machine control and steering

HIGH-PRECISION STEERING AND DRIVE SYSTEMS

Intelligent steering and control systems for exceedingly smooth operation even in narrow bends ensure precision in concrete paving.

12 MACHINE CONTROL SYSTEMS WITH ADVANCED INTELLIGENCE

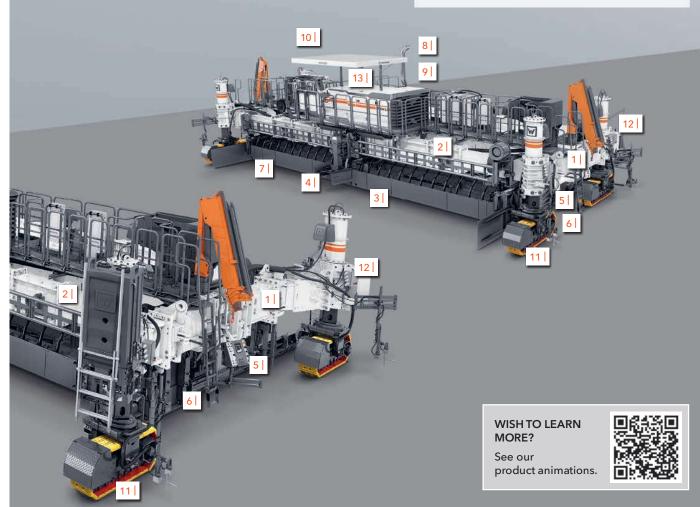
The efficient WIRTGEN WITOS FleetView telematics system supports fleet management, machine position and status monitoring, as well as maintenance and diagnostic procedures.

13 | FIELD-PROVEN 3D INTERFACE

The field-proven interface guarantees tested compatibility with the 3D control systems of leading suppliers.

SP 124 L / SP 124 Li

- > Rigid connection of track units with standard hydraulic rotational drives
- > Modification for transport by setting the track units to a steering angle of 90 degrees
- > Compact machine dimensions



91 STATE-OF-THE-ART ENGINE TECHNOLOGY

The SP 124/SP 124 L features state-of-the-art, high-performance engine technology (max. 272 kW/365 HP/370 PS) complying with exhaust emission standards EU Stage Illa/US Tier 3. The SP 124i/SP 124 Li features state-of-the-art, high-performance engine technology (max. 321 kW/430 HP/436 PS) complying with exhaust emission standards EU Stage V/US Tier 4f.

101 PERFECTION IN ERGONOMIC DESIGN AND HANDLING

Relaxed working is ensured by the ergonomically designed workplace offering perfect visibility and an intuitive operating concept standardized for all SP model ranges.

Technical specification

SP 124 | SP 124i

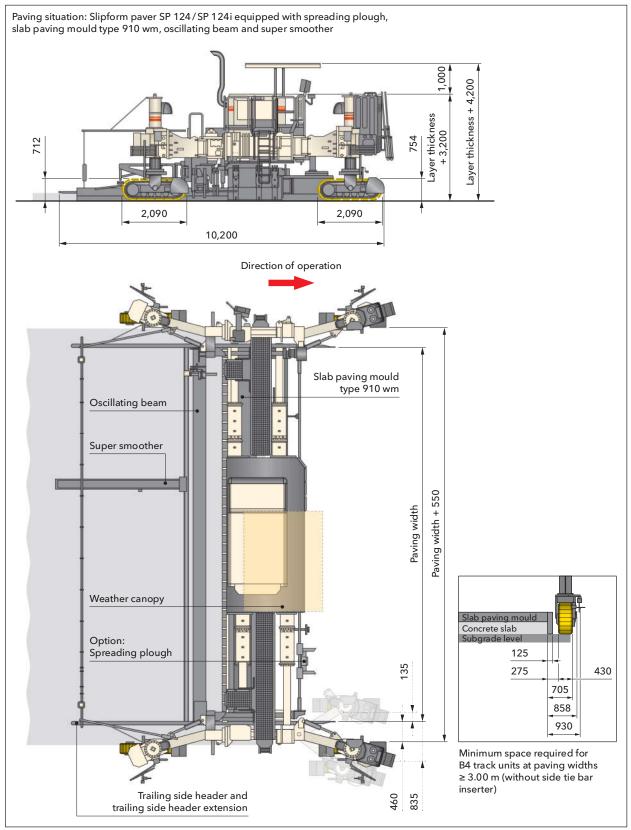
	SP 124	SP 124i
Range of applications		
Slab paving application without crown	Paving width: 4.50 m to 12.00 m * ¹ Layer thickness: up to 450 mm * ¹	
Slab paving application with crown	Paving width: 4.50 m to 12.00 m* ¹ Layer thickness: up to 450 mm* ¹	
Concrete spreading equipment		
Spreading plough	Modular extension to up to 12.00 m	
Slab paving equipment		
Slab paving mould type 910 wm (without wearing pan, without crown feature)	Modular extension	n to up to 12.00 m
Slab paving mould type 910 wm (with wearing pan, with or without crown feature)	Modular extension	n to up to 12.00 m
Oscillating beam	Modular extension	n to up to 12.00 m
Super smoother	Modular extension to up to 12.00 m	
Vibrators and circuits		
Hydraulic vibration	24 connectors (optional: 30 or 36 connectors)	
Electric vibration	26 connectors (optional: 34 connectors)	
Hydraulically driven vibrators	Curved (D66)	
Electrically driven vibrators	Curved	d (D76)
Engine		
Engine manufacturer	Cummins	Cummins
Туре	QSL-8.9 C-365	L9 C430
Cooling	Water	Water
Number of cylinders	6	6
Rated power at 2,100 rpm	272 kW/365 HP/370 PS	321 kW/430 HP/436 PS
Displacement	8,300 cm ³	8,900 cm ³
Fuel consumption, full load	74 l/h	79 l/h
Fuel consumption, ² / ₃ load	57 l/h	56 l/h
Exhaust emission standards	EU Stage IIIa/US Tier 3	EU Stage V/US Tier 4f
Electrical system		
Voltage supply	24 V DC	
Electric vibration	110 V AC 3~/200 Hz	

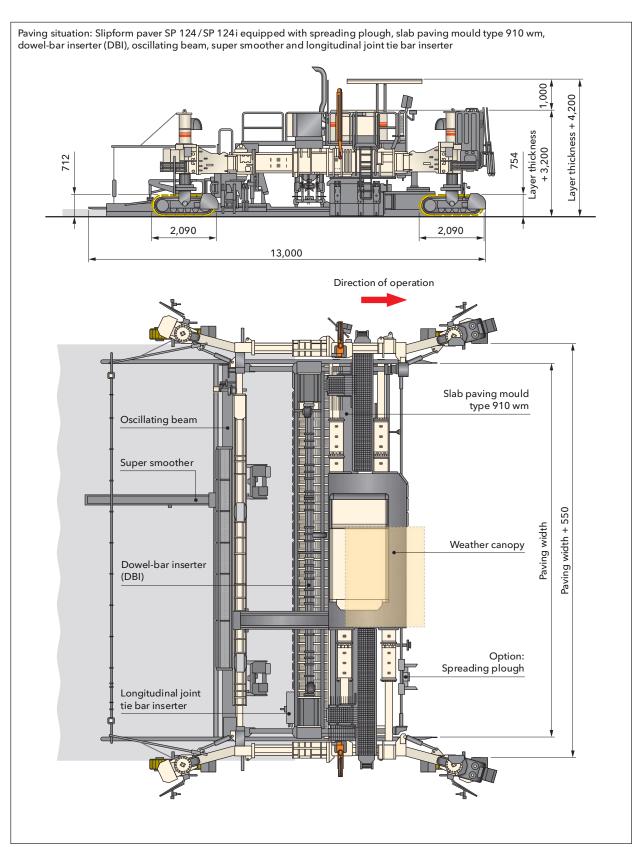
	SP 124	SP 124 i	
Filling capacities			
Fuel	660		
AdBlue®/DEF*2	-	95 l	
Hydraulic oil, electric vibration	300 I		
Hydraulic oil, hydraulic vibration	65	50 I	
Water	5501+55	1008 + 100	
Driving performance			
Paving speed	0 to 12	m/min	
Travel speed	0 to 25	m/min	
Track units			
Number	4		
Type B4: Dimensions (L x W x H)	2,090 x 430	0 x 712 mm	
Height adjustment			
Hydraulic	1,000	0 mm	
Mechanical (hole pattern)	155 mm		
Crown			
Variable adjustment range		50 m to 8.00 m: max. 3 % *3 0 m to 12.00 m: max. 2 % * ³	
Transport dimensions (L x W x H)			
Paving width 4.50 m: Machine with slab paving mould type 910 wm, including spreading plough, oscillating beam and super smoother	11,400 x 3,500 x 3,200 mm		
Paving width 12.00 m: Machine with slab paving mould type 910 wm, including spreading plough, oscillating beam and super smoother	18,900 x 3,500 x 3,200 mm		
Machine weights			
Operating weight, CE*4 (with slab paving mould type 910 wm), 4.50 m	59,00	00 kg	
Machine weight*5	56,000 to 102,000 kg		

^{*1 =} Please consult factory for special paving widths, layer thicknesses and optional equipment features
*2 = AdBlue® is a registered trademark of the Association of the Automotive Industry (Verband der Automobilindustrie e. V.; VDA)
*3 = Values within standard transport height; please consult factory for special dimensions
*4 = Weight of machine, half weight of all operating materials, on-board tools, machine operator (75 kg), no optional equipment features
*5 = Weights depend on the paver's range of equipment and paving width

Dimensions

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Standard equipment features

SP 124 | SP 124i

	SP 124	SP 124 i
Basic machine		
Heavy-duty design for accommodating telescoping elements, machine frame telescoping continuously to both sides for accommodating paving moulds between the track units from 4.50 m to 9.50 m (optional: up to 12.00 m) in width	•	
Heavy-duty steel frame telescoping continuously by a total of 2.20 m on both sides; can be optionally extended by up to 2×3.75 m using fixed-width extension elements	•	-
The machine frame is pre-fitted with multiple mounting points for the modular addition of a variety of equipment features	•	-
Mechanical telescoping feature for extending the machine frame in longitudinal direction to accommodate additional optional features (dowel bar inserter, longitudinal joint tie bar inserters)	•	•
Fuel tank, 660 l	•	
Electrical system (24 V)		
Cooling system with temperature-controlled fan speed		
Hydraulic system including an adequately sized hydraulic oil tank and a pump transfer gearbox with four output shafts and the pumps required for the machine's basic equipment package	•	
Main frame and height adjustment		
Frame elements for mechanical telescoping in increments to working widths of up to 9.50 m		
Chassis and chassis linkage		
Four height-adjustable track units with hydraulic pivoting legs, including cylinder drives		
Machine control, levelling and steering		
WI-CONTROL - high-quality control system ensuring perfect interaction between all machine features		
Error messages are displayed on the machine's control screen		
The existing CAN-bus system can be expanded to customer specifications		
ECO mode: performance-optimized engine management system for reduced diesel consumption and low noise emissions	•	
Proportional electrohydraulic levelling and steering by means of a PLC system including four levelling sensors and two steering sensors	•	•
Sensor mounting brackets, adjustable in height and range		
Face had a substitution of the second of 100 as		
Four hydraulic levelling cylinders with a stroke of 1.00 m		
Vibration		

= Standard equipment

= Standard equipment, replaceable with optional equipment
= Optional equipment

	SP 124	SP 124 i
Concrete equipment for slab paving		
Paving mould 910 wm, basic width 4.50 m, without crown, with trailing side header and trailing side header extension 260 mm, including crosslink		
Single-piece sideplate for paving mould series 910 wm; valve position on side support		
Single-piece sideplate for paving mould series 910 wm; valve position on paving mould		
Operator's platform		
Ergonomically designed operator's platform providing a perfect view of the paving process		•
Three control panels with clear, language-independent labelling for ergonomic operation		
Control panel 1 for machine setup according to site requirements		•
Control panel 2 with multifunctional control screen providing the operator with all relevant machine parameters and allowing settings to be made via a menu		•
Control panels 1 and 3 can be adjusted to all directions of travel and paving configurations		•
Control panel 3 for controlling the concrete equipment		
Two control panels can be stored in the engine compartment; the third control panel can be protected against vandalism and weather by means of a lockable cover	•	•
Automatic recognition of each machine configuration provides easy orientation for the machine operator		
Miscellaneous		
Comprehensive toolkit in lockable toolbox including torque multiplier and torque wrench	•	•
Comprehensive safety package with EMERGENCY STOP switches		
Pre-fitting for installing the WITOS FleetView control unit		•
Filling of the machine's hydraulic system with mineral hydraulic oil		
Standard painting in RAL 9001 (cream)		
WITOS FleetView - professional telematics solution to optimize machine use and servicing		
Lighting system including 4 halogen working lights, 24 V		

^{■ =} Standard equipment
□ = Standard equipment, replaceable with optional equipment
□ = Optional equipment

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	SP 124	SP 124 i
Main frame and height adjustment		
Frame elements for mechanical telescoping in increments to working widths of up to 12.00 m		
Chassis and chassis linkage		
Four height-adjustable track units with hydraulic pivoting legs, including hydraulic rotational drives		
Machine control, levelling and steering		
Additional control console for track unit adjustment		
Two slab tracers		
Four slab tracers		
Control console for manual track unit steering		
Pre-fitting for 3D levelling		
Additional slope sensors for 3D levelling		
Concrete spreading equipment for slab paving		
Spreading plough - basic width 4.50 m		
Spreading plough - extension element 0.25 m		
Spreading plough - extension element 0.40 m		
Spreading plough - extension element 0.50 m		
Spreading plough - extension element 0.60 m		
Spreading plough - extension element 0.75 m		
Spreading plough - extension element 1.00 m		
Spreading plough - extension element 2.00 m		
Vibration		
Hydraulic vibrator drive for max. 30 vibrators		
Hydraulic vibrator drive for max. 36 vibrators		
Electric vibrator drive with 60-kVA generator for max. 26 vibrators		
Electric vibrator drive with 60-kVA generator for max. 34 vibrators		
12 curved vibrators D76, electrically driven		
Curved vibrator D66, hydraulically driven		
Curved vibrator D76, electrically driven		
Concrete equipment for slab paving		
Metering gate for paving mould with/without crown - basic width 4.50 m (optional: up to 12.00 m)		
Automatic metering gate control for concrete paving mould		

⁼ Standard equipment

⁼ Standard equipment, replaceable with optional equipment
= Optional equipment

	SP 124	SP 124 i
Concrete equipment for slab paving		
Metering gate – extension element 0.25 m		
Metering gate - extension element 0.40 m		
Metering gate - extension element 0.50 m		
Metering gate - extension element 0.60 m		
Metering gate - extension element 0.75 m		
Metering gate - extension element 1.00 m		
Metering gate - extension element 2.00 m		
Paving mould 910 wm, basic width 4.50 m, with /without crown, with trailing side header and trailing side header extension 260 mm, including crosslink		
Two-piece sideplate for paving mould series 910 wm for the production of construction joints; valve position on side support		
Two-piece sideplate for paving mould series 910 wm for the production of construction joints; valve position on paving mould		
Paving mould series 910 wm - extension element 0.25 m		
Paving mould series 910 wm - extension element 0.40 m		
Paving mould series 910 wm - extension element 0.50 m		
Paving mould series 910 wm - extension element 0.60 m		
Paving mould series 910 wm - extension element 0.75 m		
Paving mould series 910 wm - extension element 1.00 m		
Paving mould series 910 wm - extension element 2.00 m		
Automatic dowel bar inserter (DBI) for use without crown – basic width 4.50 m		
Automatic dowel bar inserter (DBI) for use with crown - basic width 4.50 m		
Base group for dowel bar inserter (DBI) for paving widths of up to 4.50 m		
Base group for dowel bar inserter (DBI) for paving widths of up to 5.00 m		
Base group for dowel bar inserter (DBI) for paving widths of up to 6.00 m		
Base group for dowel bar inserter (DBI) for paving widths of up to 7.00 m		
Base group for dowel bar inserter (DBI) for paving widths of up to 8.00 m		
Base group for dowel bar inserter (DBI) for paving widths of up to 9.00 m		
Base group for dowel bar inserter (DBI) for paving widths of up to 10.00 m		
Base group for dowel bar inserter (DBI) for paving widths of up to 11.00 m		
Base group for dowel bar inserter (DBI) for paving widths of up to 12.00 m		

^{■ =} Standard equipment
□ = Standard equipment, replaceable with optional equipment
□ = Optional equipment

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	SP 124	SP 124 i
Concrete equipment for slab paving		
Dowel bar inserter (DBI) – extension element 0.25 m		
Dowel bar inserter (DBI) – extension element 0.40 m		
Dowel bar inserter (DBI) – extension element 0.50 m		
Dowel bar inserter (DBI) - extension element 0.60 m		
Dowel bar inserter (DBI) – extension element 0.75 m		
Dowel bar inserter (DBI) - extension element 1.00 m		
Dowel bar inserter (DBI) – extension element 2.00 m		
Eye bolts as modification aid for altering the width of the dowel bar inserter (DBI)		
DBI self-loading device including diesel-powered hydraulic unit (AG3)		
One longitudinal joint tie bar inserter for tie bars ø 12 - 25 mm, length 400 - 800 mm		
Two longitudinal joint tie bar inserters for tie bars ø 12-25 mm, length 400 - 800 mm		
Three longitudinal joint tie bar inserters for tie bars ø 12-25 mm, length 400 - 800 mm		
One longitudinal joint tie bar inserter for tie bars ø 12 - 25 mm, length 800 - 1,200 mm		
Two longitudinal joint tie bar inserters for tie bars ø 12-25 mm, length 800 - 1,200 mm		
Three longitudinal joint tie bar inserters for tie bars ø 12 - 25 mm, length 800 - 1,200 mm		
Frame extension + electrical control system for dowel bar inserter (DBI) and longitudinal joint tie bar inserter for working widths of up to 9.50 m, machine with pivoting legs		
Frame extension + electrical control system for dowel bar inserter (DBI) and longitudinal joint tie bar inserter for working widths of up to 12.00 m, machine with pivoting legs		
Oscillating beam without crown - basic width 4.50 m		
Oscillating beam with/without crown - basic width 4.50 m		
Oscillating beam - extension element 0.25 m		
Oscillating beam - extension element 0.40 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 2.00 m		
Super smoother - basic width 4.50 m (reversible to 2.00 m)		
Super smoother - extension element 0.25 m		
Super smoother - extension element 0.40 m		
Super smoother – extension element 0.50 m		
Super smoother – extension element 0.60 m		
Super smoother – extension element 0.75 m		
- Standard aguinment		

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

= Optional equipment

	SP 124	SP 124 i
Concrete equipment for slab paving		
Super smoother - extension element 1.00 m		
Super smoother - extension element 2.00 m		
One side tie bar inserter for straight tie bars, max. ø 20 mm, length 800 mm		
Two side tie bar inserters for straight tie bars, max. ø 20 mm, length 800 mm		
Operator's platform		
Weather canopy for operator's platform, hydraulically telescoping in height, with LED lighting		
Miscellaneous		
Painting in one special colour (RAL)		
Painting in two special colours (RAL)		
Painting in max. two special colours with the lower part of the machine painted in special colour (RAL)		
High-performance lighting system including 8 LED working lights, 24 V		
Hydraulic high-pressure water cleaning system with 550-l plastic tank		
Two hydraulic high-pressure water cleaning systems with two 550-l plastic tanks		
Hydraulic high-pressure water cleaning system with 800-l plastic tank		
Additional electrical water pump, 24 V, with 10-m hose and spray gun with handle		
Paving Plus package		
Self-levelling feature for transport mode		
Rotating beacon, halogen 24 V, with magnetic base		
Two flashing beacons, 24 V, with magnetic base		
Automatic crown adjustment		
Two LED floodlights including power generator (230 V)		
Two LED floodlights including power generator (110 V)		
High-performance lighting system including 4 LED working lights, 24 V, for illuminating the compaction compartment		
One hydraulically driven crane system		
Two hydraulically driven crane systems		
Stringline tensioning system, complete with 1,000 m steel wire rope		
Second tensioning winch for levelling the machine using two steel wire ropes		
Stringline tensioning system, complete with 4 x 300 m nylon rope		
Machine commissioning (day rate)		
Export packaging		

^{■ =} Standard equipment
□ = Standard equipment, replaceable with optional equipment
□ = Optional equipment

Technical specification

SP 124 L | SP 124 Li

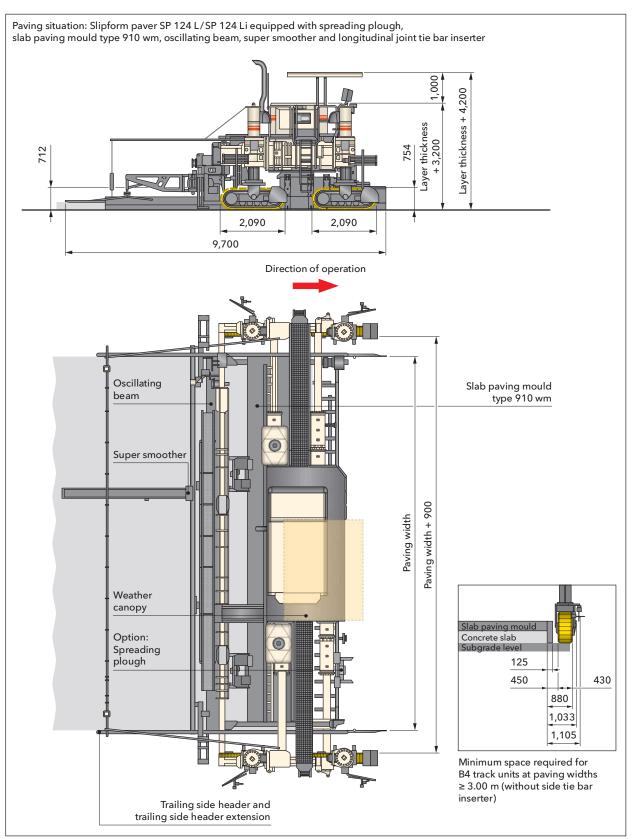
Range of applications Slab paving application without crown Slab paving application with crown Reving width: 4.50 m to 12.00 m *1 Layer thickness: up to 450 mm *1* Layer thickness: up to 12.00 m *1* Modular extension to up to 12.00 m Modula		SP 124 L	SP 124 Li
Slab paving application with crown Slab paving application with crown Concrete spreading equipment Spreading plough Modular extension to up to 12.00 m Slab paving mould type 910 wm (without wearing pan, without crown feature) Modular extension to up to 12.00 m Vibrators and circuits Hydraulically driven vibration 24 connectors (optionals 30 or 36 connectors) Electric vibration 25 connectors (optionals 34 connectors) Curved (D66) Electrically driven vibrators Curved (D66) Engine Engine manufacturer Cummins Cummins Cummins Cummins Countries Figure of cylinders 6 6 6 8 Reted power at 2,100 rpm 272 kW/365 HP/370 PS 321 kW/430 HP/436 PS Displacement 8,300 cm ³ 8,900 cm ³ Fuel consumption, full load 74 I/h 79 I/h Fuel consumption, full load Fuel consumption, full load Fuel consumption, full load Ectrical system Voltage supply Voltage supply	Range of applications		
Concrete spreading equipment Spreading plough Modular extension to up to 12.00 m Slab paving equipment Slab paving equipment Slab paving equipment Slab paving mould type 910 wm (without reven feature) Modular extension to up to 12.00 m Super smoother Modular extension to up to 12.00 m Vibrators and circuits Hydraulic vibration 24 connectors (optional: 30 or 36 connectors) Electric vibration 26 connectors (optional: 34 connectors) Hydraulically driven vibrators Curved (D66) Engine Engine manufacturer Cummins Cummins Type QSL-9, C-3.65 L9 C430 Cooling Water Water Number of cylinders 6 6 6 Rated power at 2,100 rpm 272 kW/365 HP/370 PS 321 kW/430 HP/436 PS Displacement 8,300 cm² 8,900 cm³ 8,900 cm³ Fuel consumption, full load 74 I/h 79 I/h 56 I/h Eschaust emission standards EU Stage Illa/US Tier 3 EU Stage V/US Tier 4f Electrical system Voltage supply	Slab paving application without crown		
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(without wearing pan, without crown feature) Slab paving mould type 910 wm (with wearing pan, with or without crown feature) Oscillating beam Modular extension to up to 12.00 m Super smoother Modular extension to up to 12.00 m Vibrators and circuits Hydraulic vibration 24 connectors (optional: 30 or 36 connectors) Electric vibration 26 connectors (optional: 34 connectors) Hydraulically driven vibrators Curved (D76) Engine Engine manufacturer Cummins Cummins Type QSL-8.9 C-365 L9 C430 Cooling Water Water Number of cylinders 6 6 6 Rated power at 2,100 rpm 272 kW/365 HP/370 PS 321 kW/430 HP/436 PS Displacement 8,300 cm³ 8,900 cm³ Fuel consumption, full load 74 l/h 79 l/h Fuel consumption, full load 57 l/h 56 l/h Exhaust emission standards EU Stage Illa/US Tier 3 EU Stage V/US Tier 4f Electrical system Voltage supply 24 V DC	Slab paving equipment		
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Super smoother Vibrators and circuits Hydraulic vibration 24 connectors (optional: 30 or 36 connectors) Electric vibration 26 connectors (optional: 34 connectors) Hydraulically driven vibrators Curved (D66) Electrically driven vibrators Curved (D76) Engine Engine Engine manufacturer Cummins Cummins Cummins Cummins Cummins Cummins Cummins Type QSL-8.9 C-365 L9 C430 Cooling Water Water Number of cylinders 6 6 Rated power at 2,100 rpm 272 kW/365 HP/370 PS 321 kW/430 HP/436 PS Displacement 8,300 cm³ 8,900 cm³ Fuel consumption, full load 74 l/h 79 l/h Fuel consumption, ² / ₅ load 57 l/h 56 l/h Exhaust emission standards EU Stage Illa/US Tier 3 EU Stage V/US Tier 4f Electrical system Voltage supply	Slab paving mould type 910 wm (with wearing pan, with or without crown feature)	Modular extensio	n to up to 12.00 m
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Hydraulic vibration 24 connectors (optional: 30 or 36 connectors) Electric vibration 26 connectors (optional: 34 connectors) Hydraulically driven vibrators Curved (D66) Electrically driven vibrators Curved (D76) Engine Engine Engine manufacturer Cummins Cummins Type QSL-8.9 C-365 L9 C430 Cooling Water Water Number of cylinders 6 6 6 Rated power at 2,100 rpm 272 kW/365 HP/370 PS 321 kW/430 HP/436 PS Displacement 8,300 cm³ 8,900 cm³ Fuel consumption, full load 74 l/h 79 l/h Fuel consumption, 2/3 load 57 l/h 56 l/h Exhaust emission standards EU Stage Illa /US Tier 3 EU Stage V/US Tier 4f Electrical system Voltage supply 24 V DC	Super smoother	Modular extension to up to 12.00 m	
Electric vibration 26 connectors (optional: 34 connectors) Hydraulically driven vibrators Curved (D66) Electrically driven vibrators Curved (D76) Engine Engine manufacturer Cummins Cummins Type QSL-8.9 C-365 L9 C430 Cooling Water Water Number of cylinders 6 6 Rated power at 2,100 rpm 272 kW/365 HP/370 PS 321 kW/430 HP/436 PS Displacement 8,300 cm³ 8,900 cm³ Fuel consumption, full load 74 l/h 79 l/h Fuel consumption, ² / ₅ load 57 l/h 56 l/h Exhaust emission standards EU Stage Illa/US Tier 3 EU Stage V/US Tier 4f Electrical system Voltage supply 24 V DC	Vibrators and circuits		
Hydraulically driven vibrators Electrically driven vibrators Curved (D76) Engine Engine manufacturer Cummins Cummins Cummins Type QSL-8.9 C-365 L9 C430 Cooling Water Water Number of cylinders 6 Rated power at 2,100 rpm 272 kW/365 HP/370 PS 321 kW/430 HP/436 PS Displacement 8,300 cm³ 8,900 cm³ Fuel consumption, full load 74 1/h 79 1/h Fuel consumption, ² / ₃ load Evaluate emission standards EU Stage Illa/US Tier 3 EU Stage V/US Tier 4f Electrical system Voltage supply	Hydraulic vibration	24 connectors (optional: 30 or 36 connectors)	
Electrically driven vibrators Engine Engine manufacturer Cummins Cummins Cummins Type QSL-8.9 C-365 L9 C430 Cooling Water Water Number of cylinders 6 6 Rated power at 2,100 rpm 272 kW/365 HP/370 PS 321 kW/430 HP/436 PS Displacement 8,300 cm³ 8,900 cm³ Fuel consumption, full load 74 l/h 79 l/h Fuel consumption, 2/3 load EV Stage Illa/US Tier 3 EU Stage V/US Tier 4f Electrical system Voltage supply	Electric vibration	26 connectors (optional: 34 connectors)	
Engine Cummins Cummins Type QSL-8.9 C-365 L9 C430 Cooling Water Water Number of cylinders 6 6 Rated power at 2,100 rpm 272 kW/365 HP/370 PS 321 kW/430 HP/436 PS Displacement 8,300 cm³ 8,900 cm³ Fuel consumption, full load 74 I/h 79 I/h Fuel consumption, 2/3 load 57 I/h 56 I/h Exhaust emission standards EU Stage Illa / US Tier 3 EU Stage V/US Tier 4f Electrical system Voltage supply 24 V DC	Hydraulically driven vibrators	Curved (D66)	
Engine manufacturer Cummins Cummins Cummins Type QSL-8.9 C-365 L9 C430 Water Water Number of cylinders 6 Rated power at 2,100 rpm 272 kW/365 HP/370 PS 321 kW/430 HP/436 PS Displacement 8,300 cm³ 8,900 cm³ Fuel consumption, full load 74 l/h 79 l/h Fuel consumption, ²/₃ load Exhaust emission standards EU Stage Illa / US Tier 3 EU Stage V/US Tier 4f Electrical system Voltage supply	Electrically driven vibrators	Curved (D76)	
Type QSL-8.9 C-365 L9 C430 Cooling Water Water Number of cylinders 6 6 Rated power at 2,100 rpm 272 kW/365 HP/370 PS 321 kW/430 HP/436 PS Displacement 8,300 cm³ 8,900 cm³ Fuel consumption, full load 74 I/h 79 I/h Fuel consumption, 2/3 load 57 I/h 56 I/h Exhaust emission standards EU Stage Illa / US Tier 3 EU Stage V/US Tier 4f Electrical system Voltage supply 24 V DC	Engine		
Cooling Water Water Number of cylinders 6 6 Rated power at 2,100 rpm 272 kW/365 HP/370 PS 321 kW/430 HP/436 PS Displacement 8,300 cm³ 8,900 cm³ Fuel consumption, full load 74 I/h 79 I/h Fuel consumption, 2/3 load 57 I/h Exhaust emission standards EU Stage Illa/US Tier 3 EU Stage V/US Tier 4f Electrical system Voltage supply	Engine manufacturer	Cummins	Cummins
Number of cylinders Rated power at 2,100 rpm 272 kW/365 HP/370 PS 321 kW/430 HP/436 PS Displacement 8,300 cm³ 8,900 cm³ Fuel consumption, full load 74 l/h 79 l/h Fuel consumption, ² / ₃ load 57 l/h 56 l/h Exhaust emission standards EU Stage Illa /US Tier 3 EU Stage V/US Tier 4f Electrical system Voltage supply	Туре	QSL-8.9 C-365	L9 C430
Rated power at 2,100 rpm 272 kW/365 HP/370 PS 321 kW/430 HP/436 PS 8,300 cm³ 8,900 cm³ Fuel consumption, full load 74 l/h Fuel consumption, ² / ₃ load 57 l/h Exhaust emission standards EU Stage Illa/US Tier 3 EU Stage V/US Tier 4f Electrical system Voltage supply	Cooling	Water	Water
Displacement 8,300 cm³ 8,900 cm³ Fuel consumption, full load 74 l/h 79 l/h Fuel consumption, 2/3 load 57 l/h 56 l/h Exhaust emission standards EU Stage Illa / US Tier 3 EU Stage V / US Tier 4f Electrical system Voltage supply 24 V DC	Number of cylinders	6	6
Fuel consumption, full load 74 l/h 79 l/h Fuel consumption, ² / ₃ load 57 l/h 56 l/h Exhaust emission standards EU Stage Illa / US Tier 3 EU Stage V/US Tier 4f Electrical system Voltage supply 24 V DC	Rated power at 2,100 rpm	272 kW/365 HP/370 PS	321 kW/430 HP/436 PS
Fuel consumption, 2/3 load 57 l/h 56 l/h Exhaust emission standards EU Stage Illa / US Tier 3 EU Stage V / US Tier 4f Electrical system Voltage supply 24 V DC	Displacement	8,300 cm ³	8,900 cm ³
Exhaust emission standards EU Stage Illa / US Tier 3 EU Stage V / US Tier 4f Electrical system Voltage supply 24 V DC	Fuel consumption, full load	74 l/h	79 l/h
Electrical system Voltage supply 24 V DC	Fuel consumption, ² / ₃ load	57 l/h	56 l/h
Voltage supply 24 V DC	Exhaust emission standards	EU Stage IIIa/US Tier 3	EU Stage V/US Tier 4f
	Electrical system		
Electric vibration 110 V AC 3~/200 Hz	Voltage supply	24 V DC	
	Electric vibration	110 V AC 3~/200 Hz	

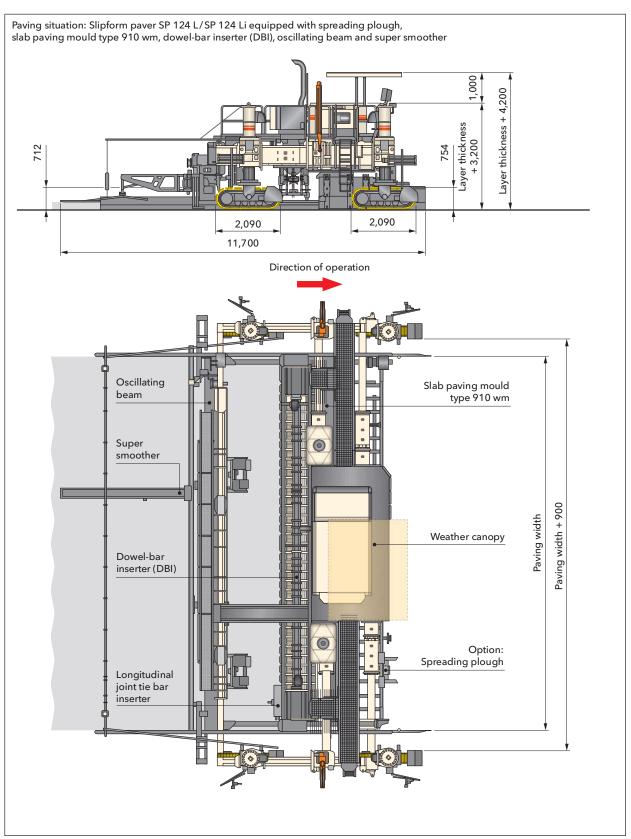
	SP 124 L	SP 124 Li
Filling capacities		
Fuel	66	0
AdBlue®/DEF*2	-	95 I
Hydraulic oil, electric vibration	30	0 I
Hydraulic oil, hydraulic vibration	65	0
Water	800 I -	- 800 I
Driving performance		
Paving speed	0 to 12	m/min
Travel speed	0 to 25	m/min
Track units		
Number	4	1
Type B4: Dimensions (L x W x H)	2,090 x 430 x 712 mm	
Height adjustment		
Hydraulic	1,000) mm
Crown		
Variable adjustment range	For paving widths from 4.5 For paving widths from 8.0	50 m to 8.00 m: max. 3 % *3 0 m to 12.00 m: max. 2 % *3
Transport dimensions (L x W x H)		
Paving width 4.50 m: Machine with slab paving mould type 910 wm, including spreading plough, oscillating beam and super smoother	8,000 x 3,700) x 3,200 mm
Paving width 12.00 m: Machine with slab paving mould type 910 wm, including spreading plough, oscillating beam and super smoother	15,500 x 3,700 x 3,200 mm	
Machine weights		
Operating weight, CE*4 (with slab paving mould type 910 wm), 4.50 m	53,00	00 kg
Machine weight *5	50,000 to	96,000 kg

^{*1 =} Please consult factory for special paving widths, layer thicknesses and optional equipment features
*2 = AdBlue® is a registered trademark of the Association of the Automotive Industry (Verband der Automobilindustrie e. V.; VDA)
*3 = Values within standard transport height; please consult factory for special dimensions
*4 = Weight of machine, half weight of all operating materials, on-board tools, machine operator (75 kg), no optional equipment features
*5 = Weights depend on the paver's range of equipment and paving width

Dimensions

SP 124 L | SP 124 Li





Standard equipment features

SP 124 L | SP 124 Li

	SP 124 L	SP 124 Li
Basic machine		
Heavy-duty design for accommodating telescoping elements, machine frame telescoping continuously to both sides for accommodating paving moulds between the track units from 4.50 m to 9.50 m (optional: up to 12.00 m) in width	•	•
Heavy-duty steel frame telescoping continuously by a total of $2.20\mathrm{m}$ on both sides; can be optionally extended by up to $2\mathrm{x}$ 3.75 m using fixed-width extension elements	•	•
The machine frame is pre-fitted with multiple mounting points for the modular addition of a variety of equipment features	٠	•
Hydraulic telescoping feature for extending the machine frame in longitudinal direction to accommodate additional optional features (dowel bar inserter, longitudinal joint tie bar inserters)	•	•
Fuel tank, 660 l		
Electrical system (24 V)		
Cooling system with temperature-controlled fan speed		
Hydraulic system including an adequately sized hydraulic oil tank and a pump transfer gearbox with four output shafts and the pumps required for the machine's basic equipment package	•	•
Main frame and height adjustment		
Frame elements for mechanical telescoping in increments to working widths of up to 9.50 m		
Chassis and chassis linkage		
Four height-adjustable track units with hydraulic rotational drives and hydraulic longitudinal telescoping feature		•
Machine control, levelling and steering		
WI-CONTROL - high-quality control system ensuring perfect interaction between all machine features		
Error messages are displayed on the machine's control screen		
The existing CAN-bus system can be expanded to customer specifications		
ECO mode: performance-optimized engine management system for reduced diesel consumption and low noise emissions	•	•
Proportional electrohydraulic levelling and steering by means of a PLC system including four levelling sensors and two steering sensors	•	•
Sensor mounting brackets, adjustable in height and range		
Four hydraulic levelling cylinders with a stroke of 1.00 m	•	•
Vibration		
Hydraulic vibrator drive for max. 24 vibrators		
12 curved vibrators D66, hydraulically driven		

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

	SP 124 L	SP 124 Li
Concrete equipment for slab paving		
Paving mould 910 wm, basic width 4.50 m, without crown, with trailing side header and trailing side header extension 260 mm, including crosslink		
Single-piece sideplate for paving mould series 910 wm; valve position on side support		
Operator's platform		
Ergonomically designed operator's platform providing a perfect view of the paving process		-
Three control panels with clear, language-independent labelling for ergonomic operation		
Control panel 1 for machine setup according to site requirements		
Control panel 2 with multifunctional control screen providing the operator with all relevant machine parameters and allowing settings to be made via a menu	•	•
Control panels 1 and 3 can be adjusted to all directions of travel and paving configurations		
Control panel 3 for controlling the concrete equipment		
Two control panels can be stored in the engine compartment; the third control panel can be protected against vandalism and weather by means of a lockable cover	•	•
Automatic recognition of each machine configuration provides easy orientation for the machine operator		
Miscellaneous		
Comprehensive toolkit in lockable toolbox including torque multiplier and torque wrench		-
Comprehensive safety package with EMERGENCY STOP switches		
Pre-fitting for installing the WITOS FleetView control unit		
Filling of the machine's hydraulic system with mineral hydraulic oil		
Standard painting in RAL 9001 (cream)		
WITOS FleetView - professional telematics solution to optimize machine use and servicing		
Lighting system including 4 halogen working lights, 24 V		

^{■ =} Standard equipment
□ = Standard equipment, replaceable with optional equipment
□ = Optional equipment

SP 124 L | SP 124 Li

	SP 124 L	SP 124 Li
Main frame and height adjustment		
Frame elements for mechanical telescoping in increments to working widths of up to 12.00 m		
Machine control, levelling and steering		
Two slab tracers		
Four slab tracers		
Control console for manual track unit steering		
Pre-fitting for 3D levelling		
Additional slope sensors for 3D levelling		
Concrete spreading equipment for slab paving		
Spreading plough - basic width 4.50 m		
Spreading plough - extension element 0.25 m		
Spreading plough - extension element 0.40 m		
Spreading plough - extension element 0.50 m		
Spreading plough - extension element 0.60 m		
Spreading plough - extension element 0.75 m		
Spreading plough - extension element 1.00 m		
Spreading plough - extension element 2.00 m		
Vibration		
Hydraulic vibrator drive for max. 30 vibrators		
Hydraulic vibrator drive for max. 36 vibrators		
Electric vibrator drive with 60-kVA generator for max. 26 vibrators		
Electric vibrator drive with 60-kVA generator for max. 34 vibrators		
12 curved vibrators D76, electrically driven		
Curved vibrator D66, hydraulically driven		
Curved vibrator D76, electrically driven		
Concrete equipment for slab paving		
Metering gate for paving mould with/without crown - basic width 4.50 m (optional: up to 12.00 m)		
Automatic metering gate control for concrete paving mould		

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

= Optional equipment

	SP 124 L	SP 124 Li
Concrete equipment for slab paving		
Metering gate - extension element 0.25 m		
Metering gate - extension element 0.40 m		
Metering gate - extension element 0.50 m		
Metering gate - extension element 0.60 m		
Metering gate - extension element 0.75 m		
Metering gate - extension element 1.00 m		
Metering gate - extension element 2.00 m		
Paving mould 910 wm, basic width 4.50 m, with/without crown, with trailing side header and trailing side header extension 260 mm, including crosslink		
Two-piece sideplate for paving mould series 910 wm for the production of construction joints; valve position on side support		
Paving mould series 910 wm - extension element 0.25 m		
Paving mould series 910 wm - extension element 0.40 m		
Paving mould series 910 wm - extension element 0.50 m		
Paving mould series 910 wm - extension element 0.60 m		
Paving mould series 910 wm - extension element 0.75 m		
Paving mould series 910 wm - extension element 1.00 m		
Paving mould series 910 wm - extension element 2.00 m		
Automatic dowel bar inserter (DBI) for use without crown - basic width 4.50 m		
Automatic dowel bar inserter (DBI) for use with crown - basic width 4.50 m		
Base group for dowel bar inserter (DBI) for paving widths of up to 4.50 m		
Base group for dowel bar inserter (DBI) for paving widths of up to 5.00 m		
Base group for dowel bar inserter (DBI) for paving widths of up to 6.00 m		
Base group for dowel bar inserter (DBI) for paving widths of up to 7.00 m		
Base group for dowel bar inserter (DBI) for paving widths of up to 8.00 m		
Base group for dowel bar inserter (DBI) for paving widths of up to 9.00 m		
Base group for dowel bar inserter (DBI) for paving widths of up to 10.00 m		
Base group for dowel bar inserter (DBI) for paving widths of up to 11.00 m		
Base group for dowel bar inserter (DBI) for paving widths of up to 12.00 m		

^{■ =} Standard equipment
□ = Standard equipment, replaceable with optional equipment
□ = Optional equipment

SP 124 L | SP 124 Li

	SP 124 L	SP 124 Li
Concrete equipment for slab paving		
Dowel bar inserter (DBI) - extension element 0.25 m		
Dowel bar inserter (DBI) - extension element 0.40 m		
Dowel bar inserter (DBI) - extension element 0.50 m		
Dowel bar inserter (DBI) - extension element 0.60 m		
Dowel bar inserter (DBI) - extension element 0.75 m		
Dowel bar inserter (DBI) - extension element 1.00 m		
Dowel bar inserter (DBI) - extension element 2.00 m		
Eye bolts as modification aid for altering the width of the dowel bar inserter (DBI)		
DBI self-loading device including diesel-powered hydraulic unit (AG3)		
One longitudinal joint tie bar inserter for tie bars ø 12 - 25 mm, length 400 - 800 mm		
Two longitudinal joint tie bar inserters for tie bars ø 12- 25 mm, length 400 - 800 mm		
Three longitudinal joint tie bar inserters for tie bars ø 12 - 25 mm, length 400 - 800 mm		
One longitudinal joint tie bar inserter for tie bars ø 12 - 25 mm, length 800 - 1,200 mm		
Two longitudinal joint tie bar inserters for tie bars ø 12- 25 mm, length 800 - 1,200 mm		
Three longitudinal joint tie bar inserters for tie bars ø 12 - 25 mm, length 800 - 1,200 mm		
Frame extension + electrical control system for dowel bar inserter (DBI) and longitudinal joint tie bar inserter for working widths of up to 9.50 m, for machine without pivoting legs		
Frame extension + electrical control system for dowel bar inserter (DBI) and longitudinal joint tie bar inserter for working widths of up to 12.00 m, for machine without pivoting legs		
Frame extension + electrical control system for dowel bar inserter (DBI) and longitudinal joint tie bar inserter for working widths of up to 9.50 m, machine with pivoting legs		
Frame extension + electrical control system for dowel bar inserter (DBI) and longitudinal joint tie bar inserter for working widths of up to 12.00 m, machine with pivoting legs		
Oscillating beam without crown - basic width 4.50 m		
Oscillating beam with/without crown - basic width 4.50 m		
Oscillating beam - extension element 0.25 m		
Oscillating beam - extension element 0.40 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 2.00 m		
Super smoother - basic width 4.50 m (reversible to 2.00 m)		
Super smoother – extension element 0.25 m		
Super smoother - extension element 0.40 m		
Super smoother - extension element 0.50 m		
Super smoother - extension element 0.60 m		
Super smoother - extension element 0.75 m		

■ = Standard equipment = Standard equipment, replaceable with optional equipment

= Optional equipment

	SP 124 L	SP 124 Li
Concrete equipment for slab paving		
Super smoother - extension element 1.00 m		
Super smoother - extension element 2.00 m		
One side tie bar inserter for straight tie bars, max. ø 20 mm, length 800 mm		
Two side tie bar inserters for straight tie bars, max. ø 20 mm, length 800 mm		
Operator's platform		
Weather canopy for operator's platform, hydraulically telescoping in height, with LED lighting		
Miscellaneous		
Painting in one special colour (RAL)		
Painting in two special colours (RAL)		
Painting in max. two special colours with the lower part of the machine painted in special colour (RAL)		
High-performance lighting system including 8 LED working lights, 24 V		
Hydraulic high-pressure water cleaning system with 800-l plastic tank		
Two hydraulic high-pressure water cleaning systems with two 800-l steel tanks		
Additional electrical water pump, 24 V, with 10-m hose and spray gun with handle		
Self-levelling feature for transport mode		
Additional control console for track unit adjustment		
Rotating beacon, halogen 24 V, with magnetic base		
Two flashing beacons, 24 V, with magnetic base		
Automatic crown adjustment		
Two LED floodlights including power generator (230 V)		
Two LED floodlights including power generator (110 V)		
High-performance lighting system including 4 LED working lights, 24 V, for illuminating the compaction compartment		
One hydraulically driven crane system		
Two hydraulically driven crane systems		
Stringline tensioning system, complete with 1,000 m steel wire rope		
Second tensioning winch for levelling the machine using two steel wire ropes		
Stringline tensioning system, complete with 4 x 300 m nylon rope		
Machine commissioning (day rate)		
Export packaging		

^{■ =} Standard equipment
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□ = Optional equipment



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