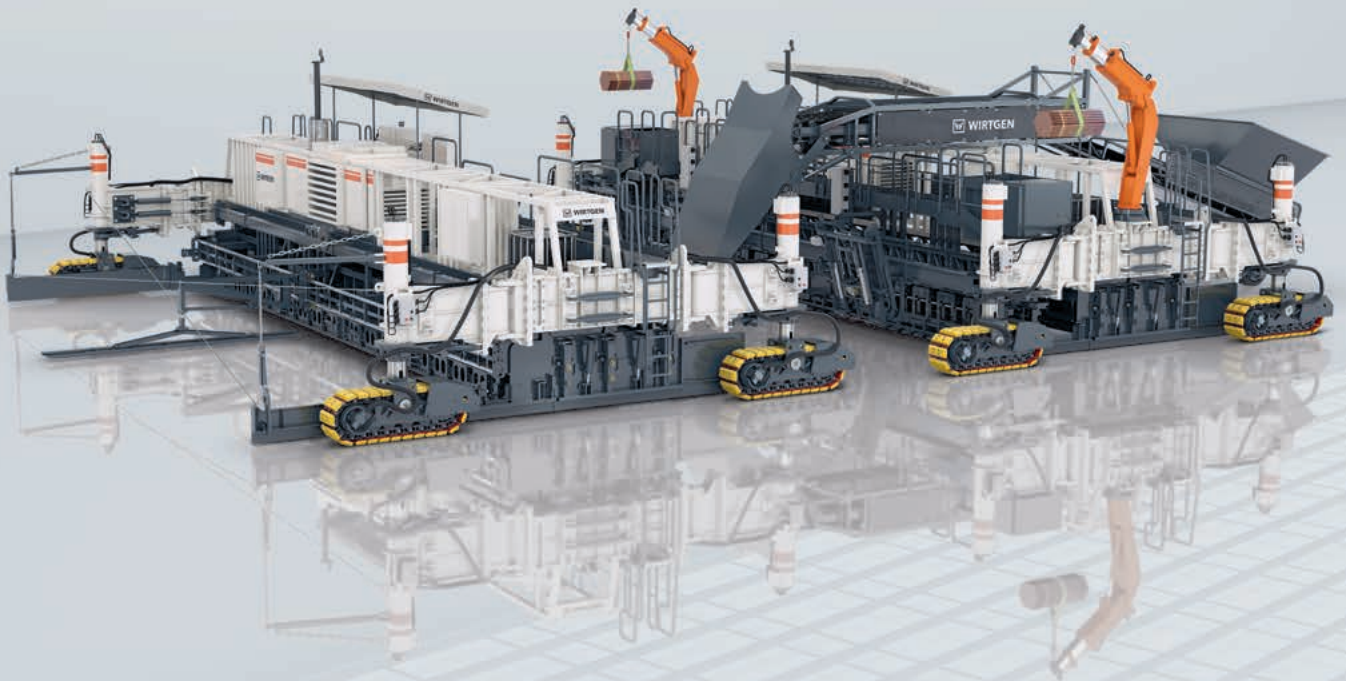



Cost-Effective Slipform Paver  
for Two-Layer Concrete Paving  
**SP 154i Slipform Paver**











# Economical Slipform Paver for Two-Layer Concrete Paving

The inset slipform paver is ideally suited for use in paving trains to efficiently produce two-layer concrete surfaces from 5.0 m\* to 16.0 m wide and 450 mm thick.

As part of a paving train, the slipform paver can be used by the customer as either a top layer or bottom layer concrete paver.

As a bottom layer paver, the machine is equipped with an automatic dowel bar inserter, up to three automatic side tie bar inserters, and a concrete conveyor to the top layer paver.

When used as a top layer paver, an oscillating beam and super smoother work together to create an ideal concrete surface.

Four separately adjustable and steerable crawler units that can be rotated by 90° make the slipform paver ideal for job sites requiring outstanding maneuverability and traction regardless of the sub-base.

\* cannot be combined with all options



# Highlights of the SP 154i Slipform Paver

04  
05

3 |

## SWING LEGS

Hydraulically adjustable swing legs make it possible to quickly and easily adapt the crawler units to the respective job site conditions.

4 |

## CRAWLER UNITS

Hydraulically-powered, individually height-adjustable and steerable crawler units for precise driving behavior and high-precision concrete paving.

2 |

## SP 154i TOP LAYER CONCRETE PAVER

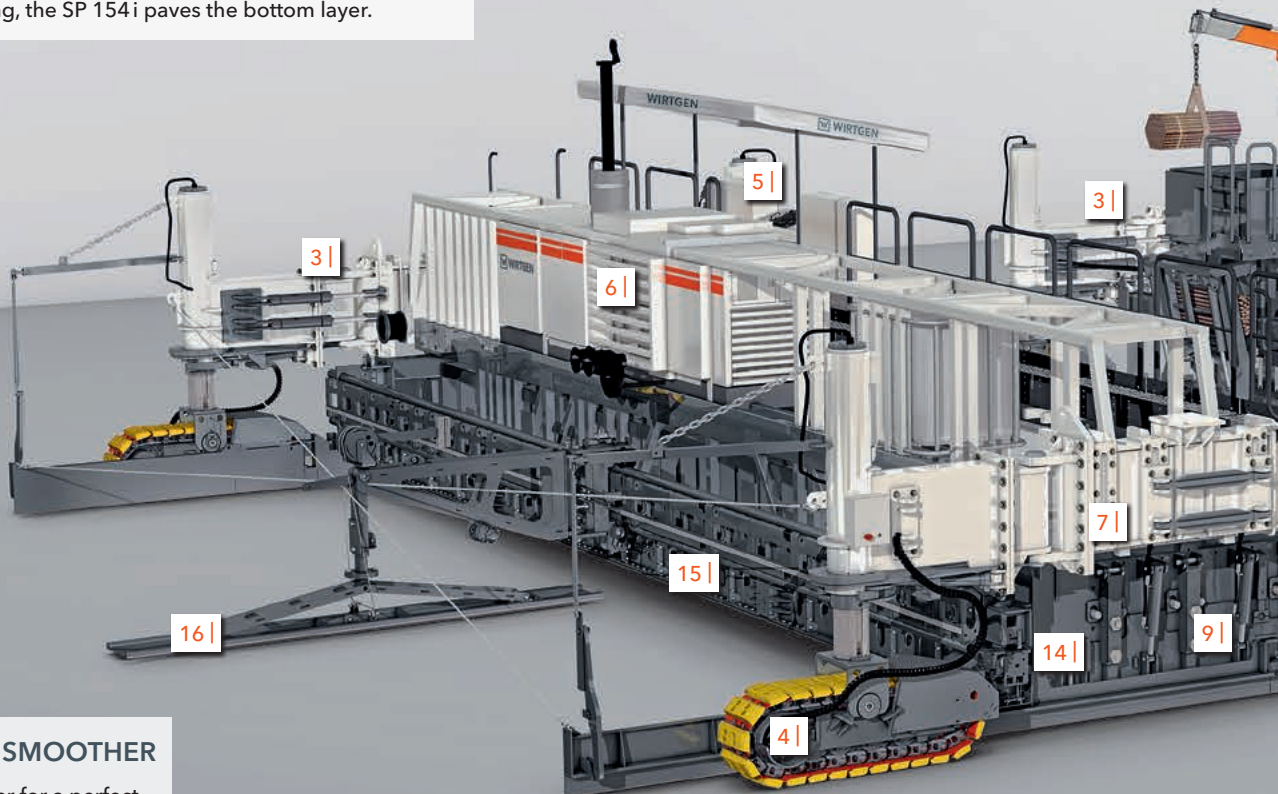
When used as a top layer paver in two-layer concrete paving, the SP 154i paves the top layer "wet on wet."

1 |

## SP 154i BOTTOM LAYER CONCRETE PAVER

When used as a bottom layer concrete paver in two-layer concrete paving, the SP 154i paves the bottom layer.

2 |



16 |

## SUPER SMOOTHER

Super smoother for a perfect surface finish.

15 |

## HEAVY-DUTY OSCILLATING BEAM

Eccentric-driven, heavy-duty oscillating beam to smooth the surface

14 |

## SIDE TIE BAR INSERTER

Automated, precise insertion of side tie bars according to dowel bar plan when paving adjacent lanes and extensions.

13 |

## LONGITUDINAL TIE BAR INSERTER

Automated, precise insertion of longitudinal tie bars according to the dowel bar plan to prevent adjacent slabs from drifting apart.



## 5 | OPERATOR'S PLATFORM

Full-length, ergonomically designed operator's platform for fatigue-free, productive working.

## 6 | DRIVE UNIT

Modern engine technology with high maximum engine power that meets EU Stage 5 / US EPA Tier 4f emission standards and ECO mode for economical diesel consumption and low noise emissions.

## 7 | TELESCOPING MACHINE FRAME

Longitudinally telescoping machine frame for using the dowel bar inserter.

## 8 | CONVEYOR FOR TOP LAYER CONCRETE

Conveying system to smoothly and reliably deposit the top layer concrete in front of the top layer paver.

## 9 | CONCRETE SPREADING

Flexibly adjustable spreader plow to ensure that the concrete is spread evenly in front of the inset paving mold.

## 10 | ELECTRIC VIBRATORS

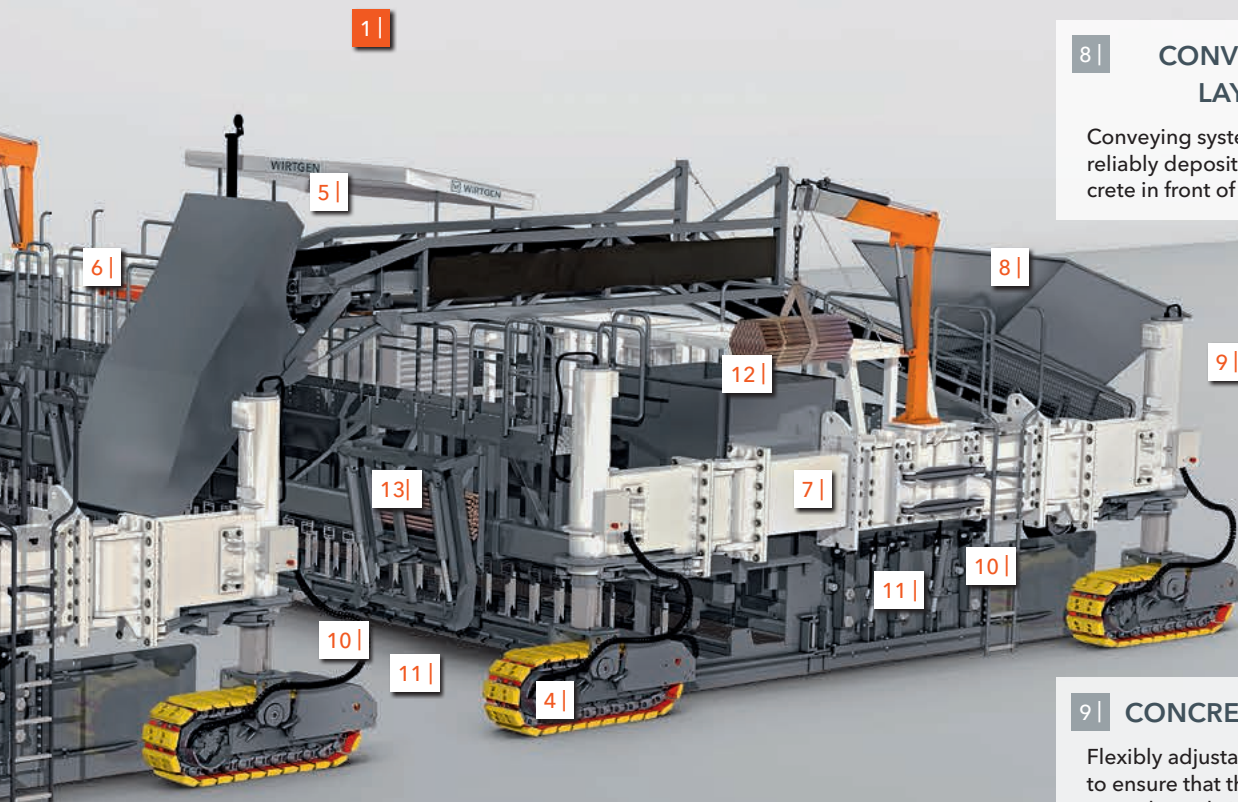
Electric vibrators for reliable concrete compaction with constant high compaction performance and low power consumption.

## 11 | INSET PAVING MOLD

Inset paving mold integrated into the machine frame between the crawler units for even, precise concrete paving.

## 12 | DOWEL BAR INSERTER

Automated, precise insertion of dowel bars according to the dowel bar plan to maintain the elevation levels of adjacent slabs.







1 |

# When It Comes to Concrete Paving, This Paving Train Is an Express Train

## HIGH-QUALITY, TWO-LAYER CONCRETE SURFACES

WIRTGEN uses a proven method to efficiently pave two-layer concrete pavements. The paving train consists of three separate units: a bottom layer paver, a top layer paver, and a TCM texture curing machine. In this context, the SP 154i slipform paver can be used by the customer as both a bottom layer and top layer paver.

Thanks to this ingenious concrete paving method, the resulting high daily production rates, easy transport, and variety of configuration options, the paving train is capable of cost-effectively producing high-quality two-layer concrete slabs up to 16.0 m wide in record time. The flexible SP 154i is equipped with four crawler units. The units are able to

operate independently of each other, which simplifies machine transport by reducing the time and effort required for assembly and disassembly. In addition, the SP 154i's high degree of automation makes it possible to work extremely cost-effectively.

Paving two concrete layers simultaneously is a recognized method to economically produce concrete surfaces.





2 |

1 | In this efficient process, the top layer concrete and bottom layer concrete are paved in immediate succession.

2 | The SP 154i can be used as both a bottom layer and top layer paver, depending on the requirements.





# Save Time and Cut Costs When Paving the Bottom Layer Concrete

## THE RELIABLE PAVING METHOD FOR SUPERIOR RESULTS

Deposit the concrete for the bottom layer in front of the SP 154i and the machine will take care of the rest virtually automatically - a truck dumps the concrete in front of the bottom layer paver, which spreads it evenly across the entire width using a spreader plow. The metering gate ensures that the height of the concrete in the compaction chamber remains constant.

Electric vibrators use high-frequency vibrations to compact the concrete. The heavy-duty

slipform mold paves the concrete true to line and level while the paver moves forward. Then dowel bars and tie bars are precisely inserted into the bottom layer concrete. The result is a low-cost, homogeneous concrete surface that serves as an ideal base for the high-quality top layer concrete.

Four crawler units provide excellent stability and good traction regardless of the surface conditions. A small minimum distance between the crawler units and the concrete surface make cost savings possible when preparing the sub-base.



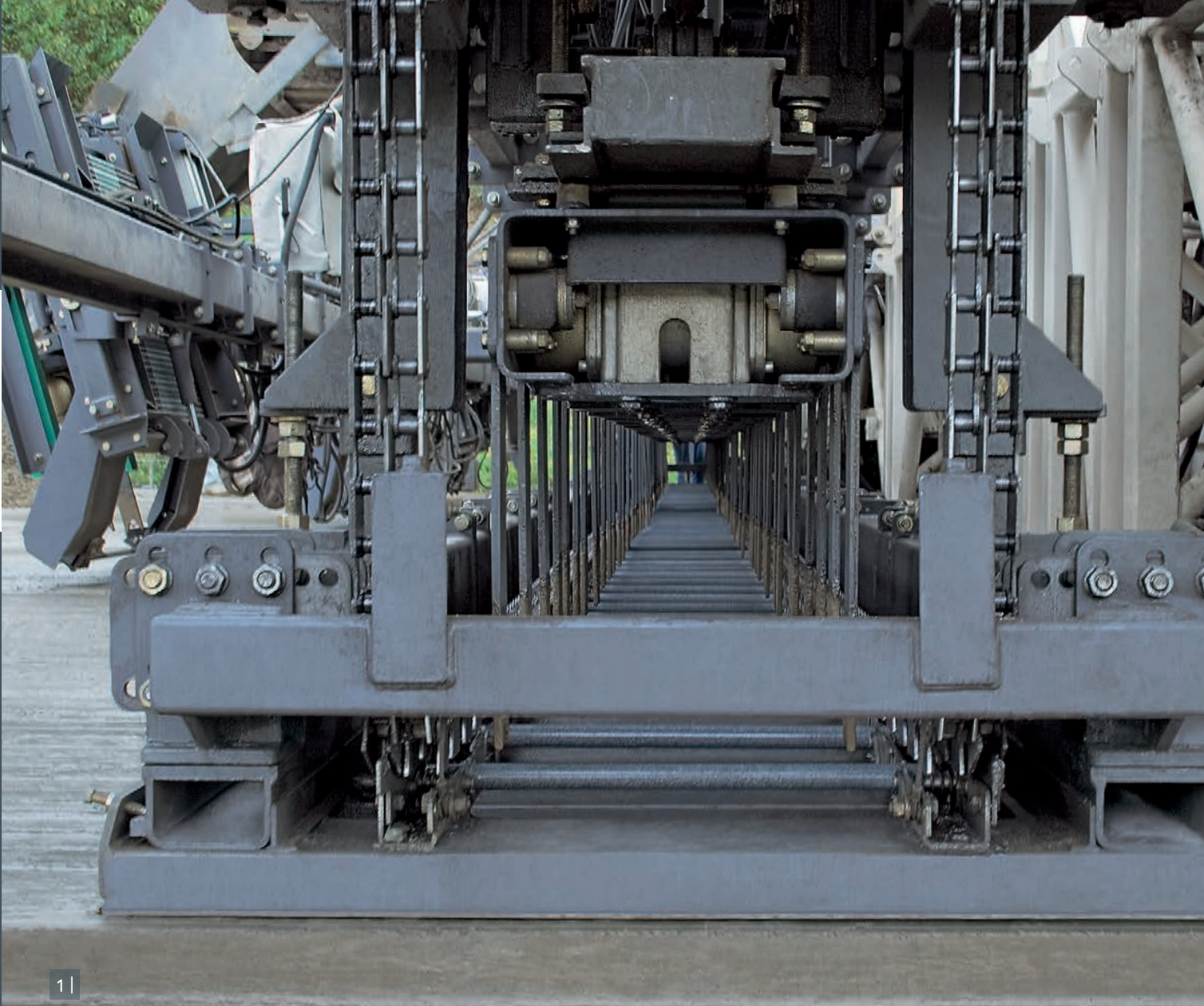


1 | Cost-effective paving of low-cost bottom layer concrete at working widths of up to 16.0 m.

2 | Sensors for height and direction control. Crawler tracks travel close to the concrete surface.

3 | Standardized design across all models: State-of-the-art control units and control systems.





11

# Automated Dowel Bar Insertion without Stopping Construction

## EXPLOIT SAVINGS POTENTIAL WITH A HIGH DEGREE OF AUTOMATION

The ability to automatically insert dowel bars and tie bars into the concrete is another of the SP 154 i's impressive features. The dowel bars are inserted lengthwise into the precompacted bottom layer concrete, the tie bars perpendicular to the roadway. What makes this system so special is that the dowel bar inserter attached to the machine is movably mounted so that it can move in the direction of travel, meaning that it remains above the insertion point without the need to interrupt the machine's forward movement until the

dowel bars have been precisely inserted into the concrete.

The dowel bar and tie bar insertion process is highly automated. The dowel bars are dispensed fully automatically from the dowel magazine. As a result, the labor required for the dowel bar insertion process is reduced to simply monitoring the process and stocking the dowel bars.

Dowel bar and tie bar lengths and intervals can be modified in accordance with project requirements.



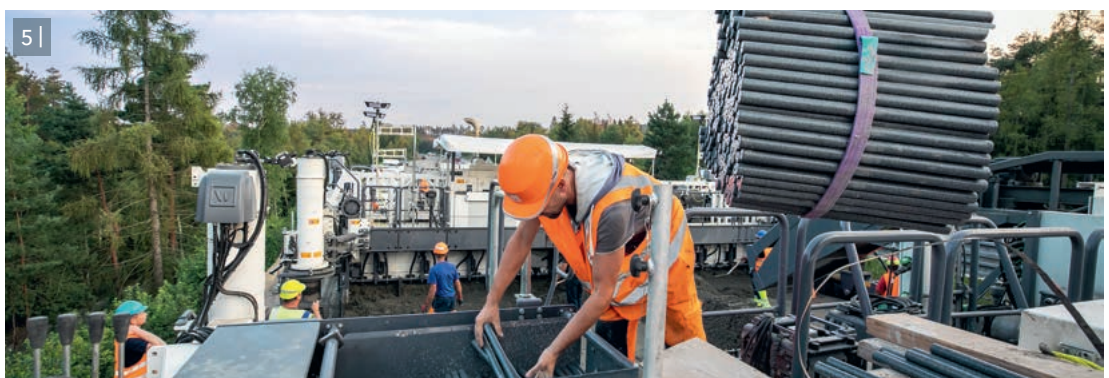


1 | The dowel bar inserter remains above the point of insertion as the machine continues to move forward.

2 | Automatic insertion of the longitudinal tie bars.

3 - 4 | The tie bars are inserted into the bottom layer concrete with pinpoint precision.

5 | The dowel bars are conveniently lifted onto the machine in packages via crane and placed into the dowel magazine.







# The Next Step: Wet-On-Wet Paving of the Top Layer

## PAVING THE SECOND CONCRETE LAYER DIRECTLY AFTER THE FIRST

Second-to-none, functional solutions geared to job site requirements are also used to pave the top layer concrete. In this process, a conveyor transports the top layer concrete over the bottom layer paver and deposits it onto the freshly paved bottom layer concrete in front of the top layer paver – an ingeniously simple solution.

The top layer paver travels over the concrete at a constant speed, evenly spreading it over the entire width with a spreader plow. The top layer is compacted and paved “wet on wet”

while the paver keeps moving forward. T-vibrators specifically designed for the top layer concrete ensure that compaction is carried out perfectly. The oscillating beam and super smoother then produce a perfect surface finish.

The high degree of automation allows the paving crew to fully focus on monitoring the process.





1 | Concrete is transported in front of the top layer concrete paver by means of a belt conveyor.

2 | Uniform distribution of the deposited top layer concrete over the entire paving width.

3 | High-precision stringline scanning ensures that all machines produce consistent and accurate results.



# Automated Smoothing: For the Perfect Finishing Touch

## A PERFECT FINISH FOR A PERFECT SURFACE

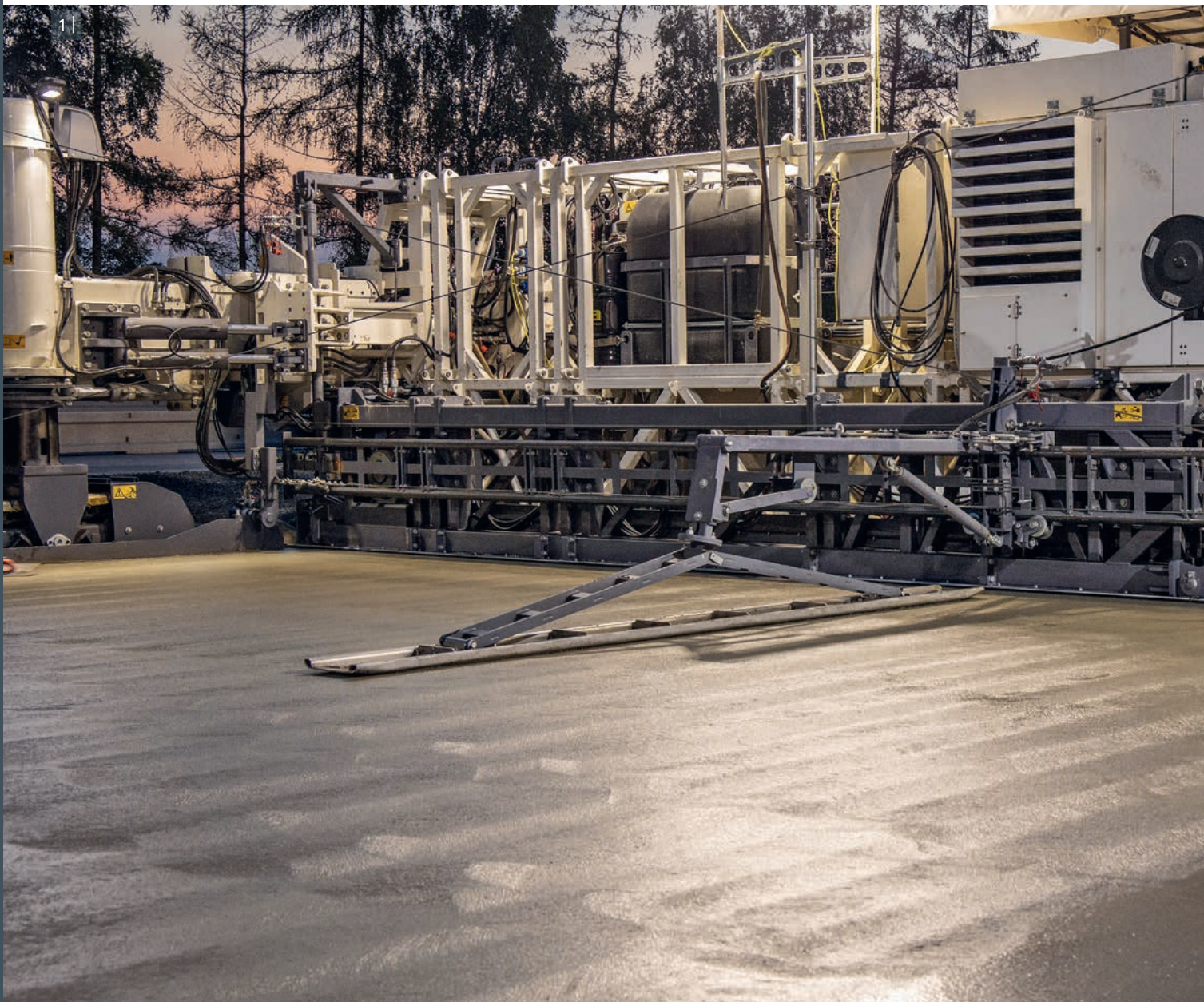
An ideal surface finish is one factor that determines the quality and service life of a road surface. The SP 154 i also stands out in this regard because it delivers outstanding results.

The top layer concrete that was paved wet on wet bonds perfectly with the bottom layer concrete. As the machine continues to travel over the road surface, the oscillating beam oscillates across the direction of travel and the

super smoother following behind it oscillates in the direction of travel. This combination always ensures that the desired surface structure is achieved.

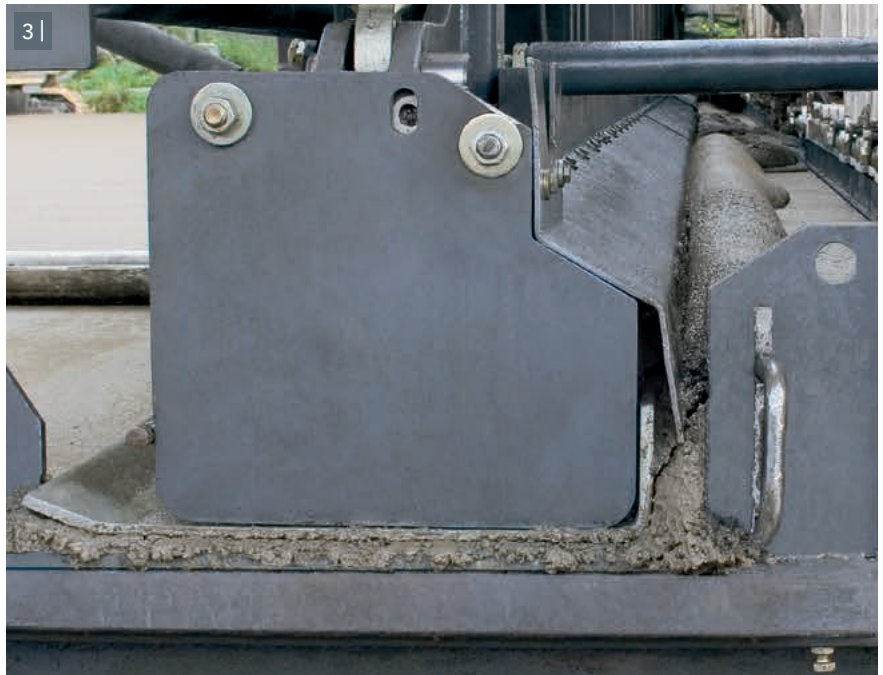
The hydraulically adjustable side plates on both sides minimize concrete loss. In addition, the trailing form and extended side plates, which are designed for the respective paving thickness, produce perfect concrete edges.

1 | After smoothing, the concrete surface meets all of the quality requirements.





2 | Hydraulically adjustable side plates produce clean edges.



3 | The heavy-duty oscillating beam oscillates continuously across the direction of travel to produce a level surface.

4 | Expensive material only needs to be used for the thin, upper layer.





11

# Texture Curing for Ideal Results - From the Same Supplier

## WELL-ENGINEERED DOWN TO THE LAST DETAIL

The paving train is equipped with a multitude of practical, time-saving features. These include the tried-and-tested texture curing machine that follows right behind the two slipform pavers. To give the surface the perfect texture and grip, either a burlap sheet, artificial turf, or a brush can be dragged lengthwise or crosswise over the freshly paved concrete.

For effective protection against rapid evaporation and cracking, the entire width of the concrete is sprayed with a special curing agent. A foil can also be automatically applied to the road surface to protect the concrete from the elements. For this purpose, the machine can be equipped with a foil unwinder.

The TCM texture curing machine supports all common texturing and curing methods, such as exposed aggregate concrete design or longitudinal brushing.

The operator's platform of the texture curing machine offers excellent visibility and ergonomically arranged controls that fit seamlessly into the operating concept of the WIRTGEN slipform paver fleet. Long periods of productivity are guaranteed by a generously sized storage container for the curing agent. Optional ancillary equipment is available to extend the machine's range of applications, such as an agitator, a filler pump, a crane, or a water heating system for removing any residual curing agent remaining in the hoses and nozzles.





1 | The texture curing machine is used to produce the required surface texture and, in the same operation, applies a combined dispersion to protect the surface.

2 | The final application of a concrete protection agent prevents the concrete from drying out too quickly and cracking.





# Technical Specifications

## SP 154i

Area of Application	Roadways, airfields, container terminals
<b>Concrete Spreading</b>	
Spreader plow for working widths of	5,000 - 16,000 mm
<b>Paving Equipment for Bottom Layer Concrete</b>	
Working width	5,000 - 16,000 mm <sup>*1</sup>
Paving thickness	0 - 450 mm <sup>*1</sup>
Crown profile adjustment	At a paving width of 5,000 mm - 9,500 mm: max. 3%
<b>Dowel Bar Inserter</b>	
Working width	5,000 - 16,000 mm <sup>*2</sup>
Dowel bar diameter	25 - 40 mm <sup>*2</sup>
Dowel bar length	450 - 600 mm <sup>*2</sup>
<b>Longitudinal Tie Bar Inserter</b>	
Tie bar diameter	20 - 40 mm <sup>*3</sup>
Tie bar length	400 - 1,200 mm <sup>*3</sup>
<b>Vibration for Bottom Layer Concrete</b>	
Connectors for electric vibration	16, can be extended to 48 (optional)
Number of electric vibrators, curved	16, can be extended to 48 (optional)
High-frequency generator	80 kVA
<b>Paving Equipment for Top Layer Concrete</b>	
Working width	5,000 - 16,000 mm <sup>*1</sup>
Paving thickness (bottom layer and top layer concrete)	0 - 500 mm <sup>*1</sup>
Crown profile adjustment	At a paving width of 5,000 mm - 9,500 mm: max. 3%
<b>Side Tie Bar Inserter</b>	
Tie bar diameter	20 - 40 mm <sup>*3</sup>
Tie bar length	400 - 800 mm <sup>*3</sup>
<b>Vibration for Top Layer Concrete</b>	
Connectors for electric vibration	16, can be extended to 32 (optional)
Number of electric T-vibrators	10, can be extended to 32 (optional)
High-frequency generator	80 kVA
<b>Oscillating Beam</b>	
Working width	5,000 - 16,000 mm
<b>Super Smoother</b>	
Working width	5,000 - 16,000 mm

\*1 = Other special applications available on request

\*2 = Applicable to the range of dowel bar sizes listed, other sizes available on request, the dowel bar inserters are configured according to preselected customer requirements

\*3 = Applicable to the range of tie bar sizes listed, other sizes available on request, longitudinal tie bar inserter and / or side tie bar inserter configured according to preselected customer requirements



Engine	
Manufacturer	Cummins
Type	L9 C430
Cooling	Water
Number of cylinders	6
Rated power at 2,100 rpm	321 kW / 430 hp / 436 PS
Displacement	8,900 cm <sup>3</sup>
Fuel consumption, full load   <sup>2</sup> / <sub>3</sub> load	88.4 l / h   58.9 l / h
Sound power level in accordance with EN 500-6, engine   operator's platform	≤ 104 dB(A)   ≥ 86 dB(A)
Emissions standard	EU Stage 5 / US EPA Tier 4f
Electrical System	
Power supply	24 V
Tank Capacities	
Fuel	800 l
AdBlue® / DEF* <sup>4</sup>	95 l
Hydraulic oil	165 l
Water	870 l
Driving Performance	
Operating speed	0 - 5 m / min
Travel speed	0 - 20 m / min
Crawler Units	
Number	4
Steering angle	± 30°
Dimensions (L x W x H)	2,100 x 350 x 715 mm (optional: 2,100 x 430 x 715 mm)
Machine Height Adjustment	
Max. hydraulic height adjustment	950 mm
Transport Dimensions (L x W x H)	
Machine for bottom layer concrete with working width of 16,000 mm	22,250 mm x 3,800 mm x 3,100 mm
Machine for top layer concrete with working width of 16,000 mm	22,250 mm x 3,600 mm x 3,100 mm
Weight Specifications* <sup>5</sup>	
Operating weight, CE* <sup>6</sup> of basic machine with options for bottom layer concrete with working width of 16,000 mm	73,580 kg
Operating weight, CE* <sup>6</sup> of basic machine with options for top layer concrete with working width of 16,000 mm	61,720 kg
Transport weight of basic machine with options for bottom layer concrete with working width of 16,000 mm	66,060 kg
Transport weight of basic machine with options for top layer concrete with working width of 16,000 mm	58,820 kg

\*<sup>4</sup> = AdBlue® is a registered trademark of the German Association of the Automotive Industry (VDA).

\*<sup>5</sup> = Weight specifications depend on the installed equipment and working width

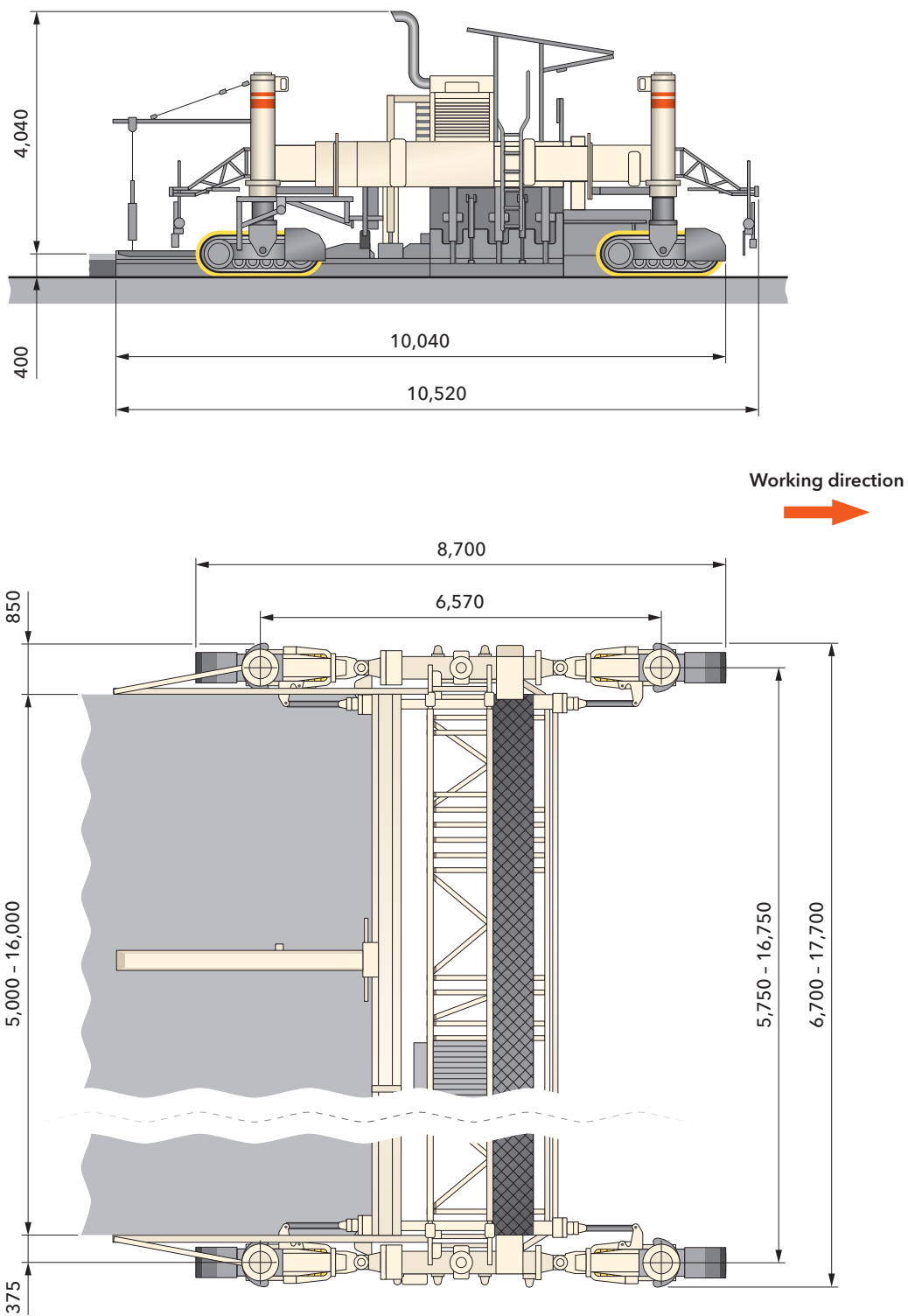
\*<sup>6</sup> = Machine weight, half-full tanks, vehicle tool kits, machine operator (75 kg), excluding optional equipment



# Dimensions

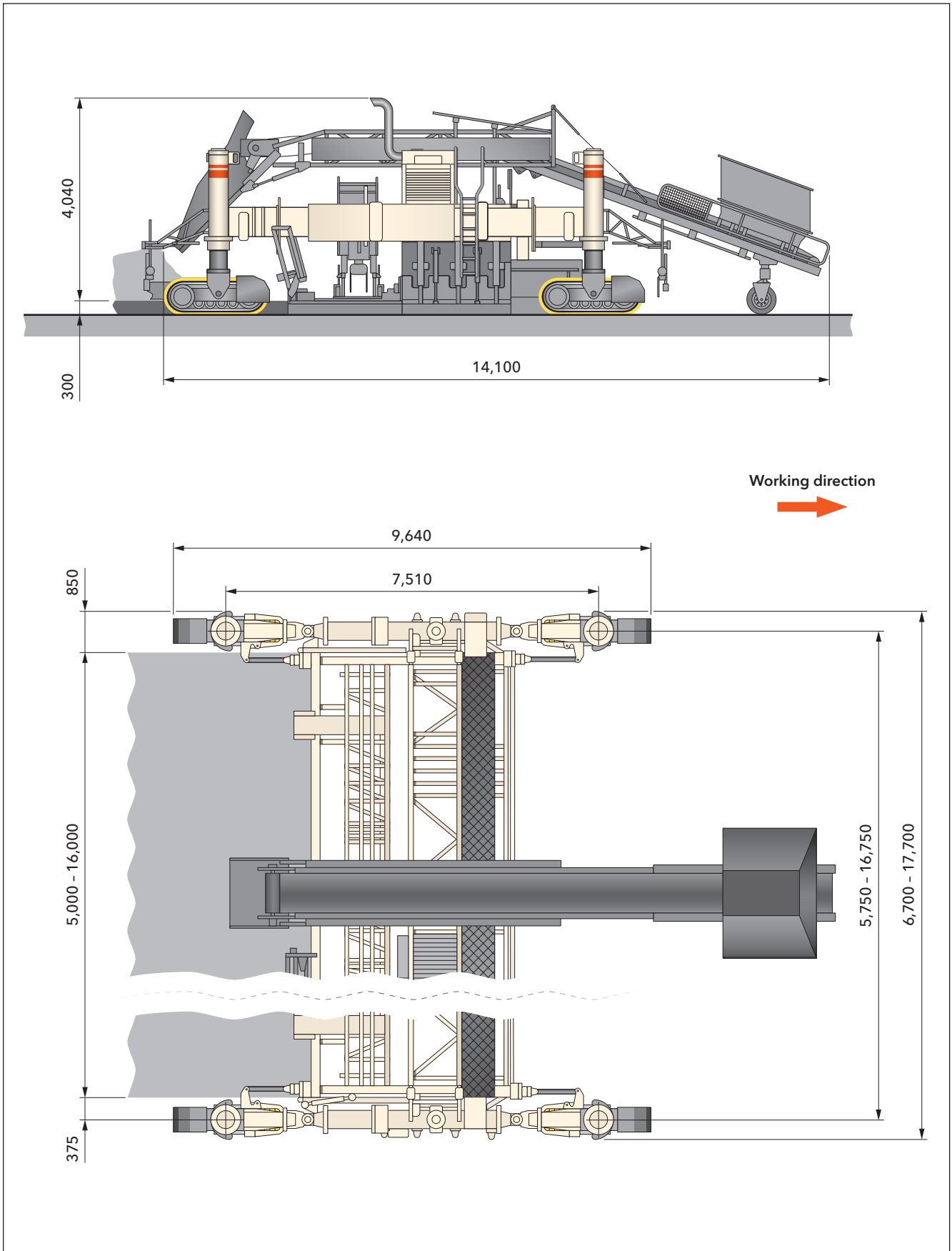
## SP 154i

20  
21



SP 154i slipform paver, concrete unit for top layer concrete  
Dimensions in mm





SP 154i slipform paver, concrete unit for bottom layer concrete  
 Dimensions in mm



# Standard Equipment

## SP 154i

	Bottom-Layer Concrete	Top-Layer Concrete
<b>Basic Machine</b>		
Fuel tank 800 liters	■	■
Hydraulic oil tank, 165 l	■	■
Water tank, 870 l	■	■
AdBlue tank, 95 l	■	■
Separate hydraulic oil cooler	■	■
Electrical system (24 V)	■	■
Hydraulic system including an generously dimensioned hydraulic oil tank and a pump transfer gearbox with four output shafts and the pumps required for the machine's basic equipment package	■	■
High frequency generator, 80 kVA, 110 V, 200 Hz, with a hydraulic drive motor, for a maximum of 48 vibrators for concrete compacting	■	■
<b>Main Frame and Height Adjustment</b>		
Equipped with paving molds between the track units for a working width of at least 5.00 m	■	■
The frame with paving molds can be extended to 16.00 m using extension elements	■	■
Four hydraulic leveling cylinders with a stroke of 0.95 m	■	■
<b>Crawler Units and Chassis Linkage</b>		
Infinitely variable paving speed from 0 - 5.00 m / min	■	■
Infinitely variable transport speed from 0 - 20 m / min	■	■
Hydraulic motors with two speed ranges	■	■
Four track units type B4 with polyurethane track pads, 350 mm	□	□
<b>Machine Control, Leveling and Steering</b>		
WI-CONTROL - high-quality control system ensuring perfect interaction between all machine features	■	■
Proportional electrohydraulic leveling and steering by means of a PLC system including four leveling sensors and two steering sensors	■	■
Sensor mounting brackets, adjustable in height and range	■	■
<b>Vibration</b>		
16 curved vibrators D76, electrically driven, including suspension	□	—
10 x curved vibrators D76, electrically driven	—	□
<b>Concrete Equipment for Slab Paving</b>		
Spreading plow with two drives	■	■

- = Standard equipment
- = Standard equipment, can be replaced with optional equipment if desired
- = Optional equipment



	Bottom-Layer Concrete	Top-Layer Concrete
<b>Concrete Equipment for Slab Paving</b>		
Depth paving mold left and right 0.20 m (others on request)	■	—
Depth paving mold left and right 0.30 m (others on request)	—	■
Metering gate for molds - basic width 5.00 m	□	□
Single-piece side plate for paving molds	□	□
Automatic dowel bar inserter, base 5.00 m	□	—
Base group for dowel bar inserter (DBI) for paving widths of up to 5.00 m	□	—
Electrical control DBI / TBI	□	—
Oscillating beam - basic width 5.00 m	—	□
Super smoother 5.00 m - 16.00 m	—	□
<b>Operator's Platform</b>		
Ergonomically designed operator's platform providing a perfect view of the paving process	■	■
Equipment of the operator's platform with a height adjustable stand-up seat	■	■
Three control panels with clear, language-independent labeling 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	■	■
The control panel can be adjusted to all directions of travel and paving configurations	■	■
Control panel 3 for controlling the concrete equipment	■	■
Both control panels (2+3) can be safely stored on the machine for transport	■	■
Automatic recognition of each machine configuration provides easy orientation for the machine operator	■	■
<b>Miscellaneous</b>		
Large tool kit in lockable tool box	■	■
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 for machine operation and service optimization	□	□
Lighting system including 4 halogen working lights, 24 V	□	□

- = Standard equipment
- = Standard equipment, can be replaced with optional equipment if desired
- = Optional equipment



# Optional Equipment

## SP 154i

	Bottom-Layer Concrete	Top-Layer Concrete
<b>Crawler Units and Chassis Linkage</b>		
Four track units type B4 with polyurethane track pads, 430 mm	<input type="checkbox"/>	<input type="checkbox"/>
<b>Machine Control, Leveling and Steering</b>		
Two slab tracers	<input type="checkbox"/>	<input type="checkbox"/>
Four slab tracers	<input type="checkbox"/>	<input type="checkbox"/>
Pre-fitting for 3D leveling	<input type="checkbox"/>	<input type="checkbox"/>
Additional slope sensors for 3D leveling	<input type="checkbox"/>	<input type="checkbox"/>
<b>Vibration</b>		
Suspension for vibrators	<input type="checkbox"/>	—
Curved vibrator D76, electrically driven	<input type="checkbox"/>	—
Horizontal T-vibrator, electrically driven, 0.50 m wide	—	<input type="checkbox"/>
Connection box for 8 vibrators	<input type="checkbox"/>	<input type="checkbox"/>
<b>Concrete Equipment for Slab Paving</b>		
Automatic metering gate control for concrete paving mold	<input type="checkbox"/>	<input type="checkbox"/>
Metering gate - extension element 0.25 m	<input type="checkbox"/>	<input type="checkbox"/>
Metering gate - extension element 0.30 m	<input type="checkbox"/>	<input type="checkbox"/>
Metering gate - extension element 0.40 m	<input type="checkbox"/>	<input type="checkbox"/>
Metering gate - extension element 0.50 m	<input type="checkbox"/>	<input type="checkbox"/>
Metering gate - extension element 0.75 m	<input type="checkbox"/>	<input type="checkbox"/>
Metering gate - extension element 1.00 m	<input type="checkbox"/>	<input type="checkbox"/>
Metering gate - extension element 1.25 m	<input type="checkbox"/>	<input type="checkbox"/>
Metering gate - extension element 1.75 m	<input type="checkbox"/>	<input type="checkbox"/>
Metering gate - extension element 2.00 m	<input type="checkbox"/>	<input type="checkbox"/>
Two-piece side plate for paving molds	<input type="checkbox"/>	<input type="checkbox"/>
Paving mold - extension element 0.25 m	<input type="checkbox"/>	<input type="checkbox"/>
Paving mold - extension element 0.30 m	<input type="checkbox"/>	<input type="checkbox"/>
Paving mold - extension element 0.40 m	<input type="checkbox"/>	<input type="checkbox"/>
Paving mold - extension element 0.50 m	<input type="checkbox"/>	<input type="checkbox"/>

- = Standard equipment
- = Standard equipment, can be replaced with optional equipment if desired
- = Optional equipment



	Bottom-Layer Concrete	Top-Layer Concrete
<b>Concrete Equipment for Slab Paving</b>		
Paving mold - extension element 0.75 m	<input type="checkbox"/>	<input type="checkbox"/>
Paving mold - extension element 1.00 m	<input type="checkbox"/>	<input type="checkbox"/>
Paving mold - extension element 1.25 m	<input type="checkbox"/>	<input type="checkbox"/>
Paving mold - extension element 1.75 m	<input type="checkbox"/>	<input type="checkbox"/>
Paving mold - extension element 2.00 m	<input type="checkbox"/>	<input type="checkbox"/>
Dowel bar inserter (DBI) - extension element 0.25 m	<input type="checkbox"/>	—
Dowel bar inserter (DBI) - extension element 0.30 m	<input type="checkbox"/>	—
Dowel bar inserter (DBI) - extension element 0.40 m	<input type="checkbox"/>	—
Dowel bar inserter (DBI) - extension element 0.50 m	<input type="checkbox"/>	—
Dowel bar inserter (DBI) - extension element 0.75 m	<input type="checkbox"/>	—
Dowel bar inserter (DBI) - extension element 1.00 m	<input type="checkbox"/>	—
Dowel bar inserter (DBI) - extension element 1.25 m	<input type="checkbox"/>	—
Dowel bar inserter (DBI) - extension element 1.75 m	<input type="checkbox"/>	—
Dowel bar inserter (DBI) - extension element 2.00 m	<input type="checkbox"/>	—
Base group for dowel bar inserter (DBI) for paving widths of up to 6.00 m	<input type="checkbox"/>	—
Base group for dowel bar inserter (DBI) for paving widths of up to 7.00 m	<input type="checkbox"/>	—
Base group for dowel bar inserter (DBI) for paving widths of up to 8.00 m	<input type="checkbox"/>	—
Base group for dowel bar inserter (DBI) for paving widths of up to 9.00 m	<input type="checkbox"/>	—
Base group for dowel bar inserter (DBI) for paving widths of up to 10.00 m	<input type="checkbox"/>	—
Base group for dowel bar inserter (DBI) for paving widths of up to 11.00 m	<input type="checkbox"/>	—
Base group for dowel bar inserter (DBI) for paving widths of up to 12.00 m	<input type="checkbox"/>	—
Base group for dowel bar inserter (DBI) for paving widths up to 13.00 m	<input type="checkbox"/>	—
Base group for dowel bar inserter (DBI) for paving widths up to 14.00 m	<input type="checkbox"/>	—
Base group for dowel bar inserter (DBI) for paving widths up to 15.00 m	<input type="checkbox"/>	—
Base group for dowel bar inserter (DBI) for paving widths up to 16.00 m	<input type="checkbox"/>	—
One longitudinal joint tie bar inserter with path measuring system for tie bars $\varnothing$ 12 - 25 mm, length 400 - 800 mm	<input type="checkbox"/>	—
Two longitudinal joint tie bar inserters with path measuring system for tie bars $\varnothing$ 12 - 25 mm, length 400 - 800 mm	<input type="checkbox"/>	—

■ = Standard equipment

■ = Standard equipment, can be replaced with optional equipment if desired

□ = Optional equipment



# Optional Equipment

## SP 154i

26  
27

	Bottom-Layer Concrete	Top-Layer Concrete
<b>Concrete Equipment for Slab Paving</b>		
Three longitudinal joint tie bar inserters with path measuring system for tie bars $\varnothing$ 12 - 25 mm, length 400 - 800 mm	<input type="checkbox"/>	—
A longitudinal joint tie bar inserter with path measuring system for tie bars $\varnothing$ 12 - 25 mm, length 800 - 1,200 mm	<input type="checkbox"/>	—
Two longitudinal joint tie bar inserters with path measuring system for tie bars $\varnothing$ 12 - 25 mm, length 800 - 1,200 mm	<input type="checkbox"/>	—
Three longitudinal joint tie bar inserters with path measuring system for tie bars $\varnothing$ 12 - 25 mm, length 800 - 1,200 mm	<input type="checkbox"/>	—
Longitudinal joint tie bar magazine for approx. 200 tie bars with $\varnothing$ 20 mm	<input type="checkbox"/>	—
Oscillating beam - extension element 0.25 m	—	<input type="checkbox"/>
Oscillating beam - extension element 0.30 m	—	<input type="checkbox"/>
Oscillating beam - extension element 0.40 m	—	<input type="checkbox"/>
Oscillating beam - extension element 0.50 m	—	<input type="checkbox"/>
Oscillating beam - extension element 0.75 m	—	<input type="checkbox"/>
Oscillating beam - extension element 1.00 m	—	<input type="checkbox"/>
Oscillating beam - extension element 1.25 m	—	<input type="checkbox"/>
Oscillating beam - extension element 1.75 m	—	<input type="checkbox"/>
Oscillating beam - extension element 2.00 m	—	<input type="checkbox"/>
<b>Concrete Equipment for Two-Layer Concrete Paving</b>		
Belt conveyor for upper layer	<input type="checkbox"/>	—
<b>Operator's Platform</b>		
Weather canopy for operator's platform, hydraulically telescoping in height	<input type="checkbox"/>	<input type="checkbox"/>

- = Standard equipment
- = Standard equipment, can be replaced with optional equipment if desired
- = Optional equipment



	Bottom-Layer Concrete	Top-Layer Concrete
<b>Miscellaneous</b>		
Painting in one special color (RAL)	<input type="checkbox"/>	<input type="checkbox"/>
Painting in two special colors (RAL)	<input type="checkbox"/>	<input type="checkbox"/>
High-performance lighting system including 8 LED working lights, 24 V	<input type="checkbox"/>	<input type="checkbox"/>
Stringline tensioning system, complete with 1,000 m steel wire rope	<input type="checkbox"/>	<input type="checkbox"/>
Additional tensioning winch for stringline tensioning system	<input type="checkbox"/>	<input type="checkbox"/>
High-pressure cleaner	<input type="checkbox"/>	<input type="checkbox"/>
Additional water tank, black, 1,100 litres	<input type="checkbox"/>	<input type="checkbox"/>
Self-leveling feature for transport mode	<input type="checkbox"/>	<input type="checkbox"/>
Two flashing beacons, 24 V, with magnetic base	<input type="checkbox"/>	<input type="checkbox"/>
Rotating beacon, halogen 24 V, with magnetic base	<input type="checkbox"/>	<input type="checkbox"/>
Automatic crown adjustment for machines without an oscillating beam	<input type="checkbox"/>	<input type="checkbox"/>
Four LED floodlights (24 V), including bracket	<input type="checkbox"/>	<input type="checkbox"/>
Four LED floodlights (220 V), including power generator	<input type="checkbox"/>	<input type="checkbox"/>
High-performance lighting system including 4 LED working lights, 24 V, for illuminating the compaction compartment	<input type="checkbox"/>	<input type="checkbox"/>
Hydraulically driven crane system	<input type="checkbox"/>	<input type="checkbox"/>
Machine commissioning (day rate)	<input type="checkbox"/>	–
Export packaging	<input type="checkbox"/>	<input type="checkbox"/>
Exportverpackung	<input type="checkbox"/>	<input type="checkbox"/>

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