

Cost-Efficient and Professional Offset Concrete Paving

# SP 20 (i) SLIPFORM PAVER



# COST-EFFICIENT AND PROFESSIONAL OFFSET CONCRETE PAVING

The four-track offset slipform paver can pave a wide range of monolithic concrete profiles with heights of up to 2.0 m or concrete surfaces at working widths of up to 2.5 m

In particular, large concrete safety barriers, but also curbs, curb / gutter profiles, channels, channel drains, narrow roads and pathways, and customer-specific special profiles are typical examples of its repertoire.

The machine's compact dimensions and optimized weight enable easy and economical transportation from site to site.

For maximum paving precision, the machine can be controlled without a string-line with the AutoPilot 2.0 system, developed in-house by WIRTGEN.

The state-of-the-art SP 20 (i) can also be equipped with third party 3D systems using predetermined digital terrain models without any problems.



## WIRTGEN SLIPFORM PAVERS

### OFFSET SLIPFORM PAVERS

- > Offset paving width up to 4.0 m<sup>1)</sup>
- > Offset paving height up to 3.0 m<sup>1)</sup>

### PLACER / SPREADERS

- > Inset paving width up to 12.0 m<sup>1)</sup>
- > Inset paving thickness up to 500 mm<sup>1)</sup>

### INSET SLIPFORM PAVERS

- > Inset paving width up to 16.0 m<sup>1)</sup>
- > Inset paving thickness up to 450 mm<sup>1)</sup>

### TEXTURE CURING MACHINES

- > Working width up to 18.0 m
- > Working height up to 500 mm

<sup>1)</sup> Special paving widths, paving thicknesses, paving heights, and other options available on request

# OVERVIEW OF HIGHLIGHTS

## Perfectly Equipped

### 01 Simple and Intuitive Operating and Optimal All-Round Vision

- > Simple and intuitive operating concept
- > Large and spacious operator's platform for a perfect overview of all important working areas
- > Operator's platform with practical fold-out extensions
- > Up to eight independently controllable LED floodlights for optimal illumination of the working area
- > Flexibly positionable high-quality camera / monitor system
- > Remotely controllable hydraulic functions

### 02 Fast and flexible Machine Configuration

- > Demand-oriented concrete feed by belt conveyor or auger conveyor
- > Variable positioning of concrete feeding system by means of adjustment in six spatial axes
- > Minimal reconfiguration time and effort for mounting the offset paving mold on the right or left side of the machine
- > Telescoping offset paving mold mounts on both sides for complex on-site situations
- > Hydraulically operated quick-change system for time-saving exchange of offset molds.
- > Combination offset paving mold with a wide variety of easily exchangeable inlays



**03 Smart Transport and Maintenance Concept**

- > Minimized transport weight and compact dimensions for easy transportation
- > Smart machine concept for fast preparation for transportation and repositioning of all components
- > Large, 500-liter, on-board water tank including high-pressure cleaner for easy cleaning, e.g. the concrete feeding system
- > Outstanding service and maintenance friendliness

**04 Extremely Cost-Efficient Solution for a Wide Range of Applications**

- > Practice-oriented machine concept - optimal cost-benefit ratio
- > Paving of concrete safety barriers up to 2.0 m in height and monolithic offset profiles of all kinds
- > Offset paving at working widths of up to 2.5 m
- > High concrete compaction performance with up to ten hydraulic or electric vibrators
- > Standard construction with four crawler units assures stable machine-geometry

**05 Precision Leveling and Steering**

- > Smart steering and control technologies ensure optimized cornering for maximum precision
- > Precision control of the advance motors in each track unit assure homogeneous concrete paving results, even at low speeds
- > Third steering and height sensor for tight, precise radii
- > Electronic cross slope control system developed in-house assures perfect paving results
- > AutoPilot 2.0 machine control system developed in-house enables precise stringless concrete paving
- > Certified standard interface for reliable communication with the most commonly used 3D systems

**06 Environmentally Friendly Machine Technology**

- > Fuel economy optimized engine with state-of-the-art exhaust treatment technology
- > Efficient, load-dependent ECO-Mode diesel engine control for reduced diesel fuel consumption and lower CO<sub>2</sub> and noise emissions
- > Effective noise insulation and elastic engine mounts minimize noise emissions



# SIMPLE AND INTUITIVE OPERATING AND OPTIMAL ALL-ROUND VISION

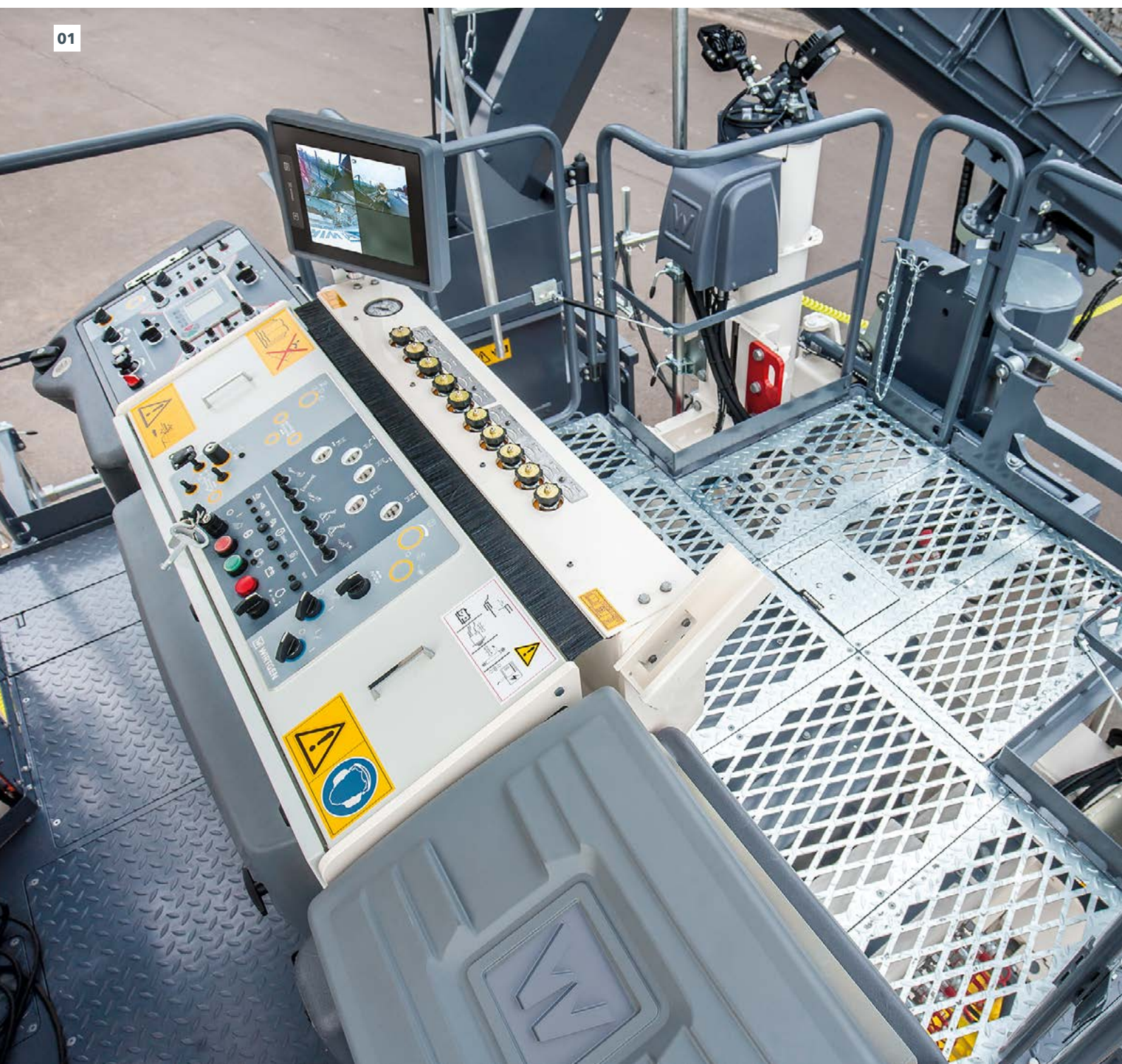
## Ideal Overview of the Entire Construction Site

Effective camera / monitor system

## Maximum Control

Mobile remote control

01



**01** The spacious operator's platform with a broad walkway on both sides provides an ideal overview of all important working areas.

### Simple and Intuitive Operating Concept

The standardized, intuitive operating concept of the machine is comparable to that used on the various current WIRTGEN slipform pavers and offers customers additional synergy effects.

### Large and Spacious Operator's Platform for a Perfect Overview of All Important Working Areas

The generously dimensioned, ergonomically designed operator's platform offers ample space and affords machine operators the best possible view of all important working areas. The control panel is characterized by a clearly laid out, informative graphic user interface and can be positioned at the right or the left.

### Practical Fold-Out Extensions for the Operator's platform

The (optional) extensions for the left and right sides of the operator's platform can be folded out to increase the width by 35 cm at each side to optimize the view of the ongoing paving process and make it easier to access the large viewing platform at the front of the machine.

### Up to Eight Independently Controllable LED Floodlights for Optimal Illumination of the Working Area

The offset slipform paver offers a number of particularly powerful LED floodlights for optimal illumination of the entire machine, the paving process, and the area around the machine.

### Flexibly Positionable High-Quality Camera / Monitor System

The camera / monitor system consists of up to four cameras (optional) and a rugged high-resolution monitor. The monitor can be rotated through a wide angle to each side and can be mounted on the left or right side of the control panel. Each camera is fitted with a 10-meter spiral cable and a magnetic base for attachment on steel part of the machine. The cameras can be flexibly mounted on the SP 20 (i) - e.g. to provide the operator with a view of the area in front of or behind the machine.

### Hydraulic Functions Controllable from a Remote Handset

Whenever needed, an extra mobile, wireless remote control handset enables members of the ground crew in better positions to conveniently and automatically make various adjustments, e.g. height adjustment of the hydraulic side plates.



**02** The hydraulic side plates can be adjusted by remote control from a mobile handset.

**03** The camera / monitor system offers an ideal overview, even into areas outside the operator's direct field of view.

# FAST AND FLEXIBLE MACHINE CONFIGURATION

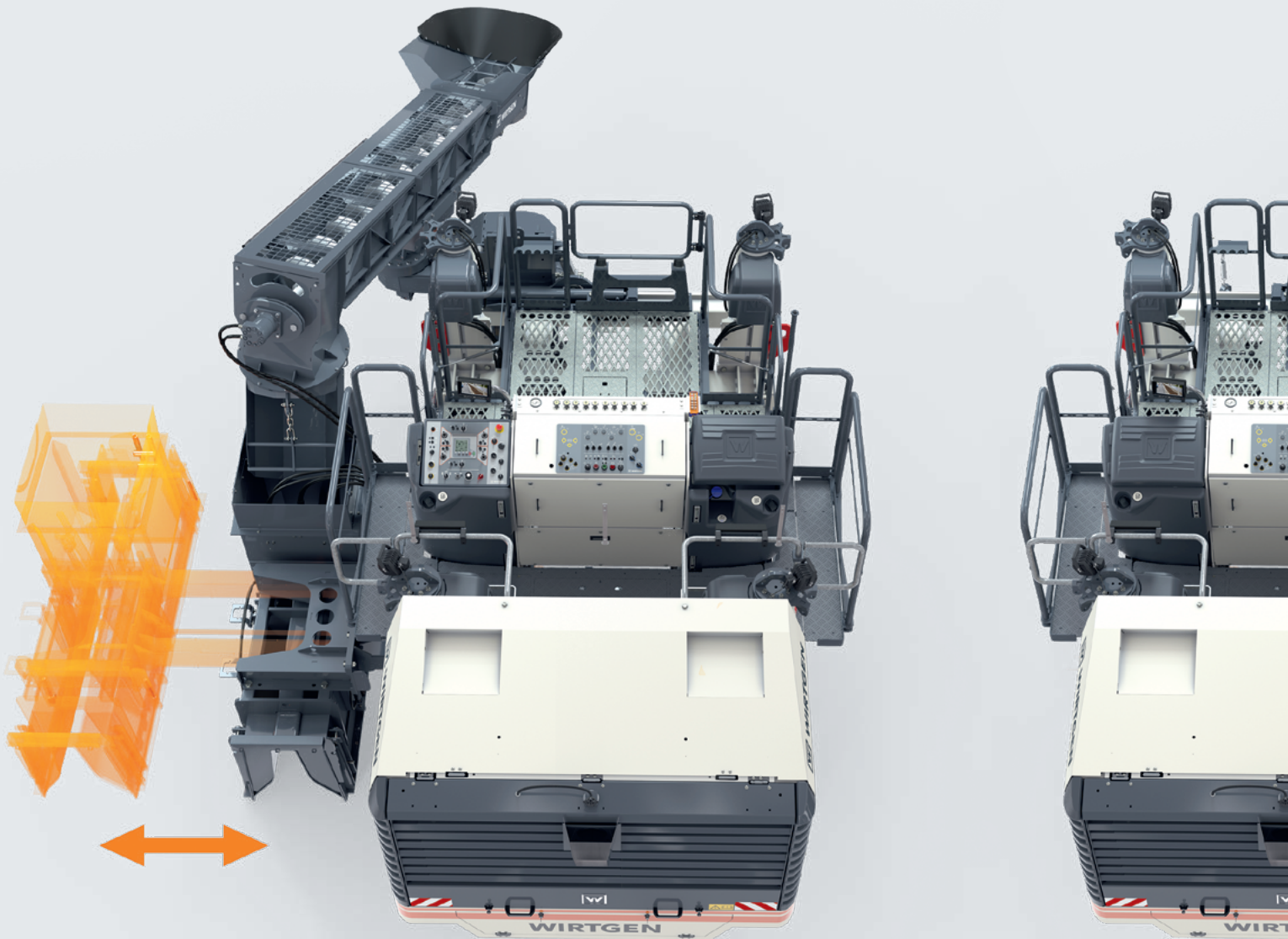
## Flexibility in its Purest Form

Offset paving mold at the right or the left side

## Extremely Fast Reconfiguration

Quick-change system for offset paving molds

01





### Demand-Oriented Concrete Feeding by Belt Conveyor or Auger Conveyor

Two different concrete feeding options. The highlights of the belt conveyor are its high concrete feed rate and optimal accessibility for easy cleaning, servicing, and maintenance. The auger conveyor can be set at an angle of up to 42 ° and can be used as a buffer storage option for large amounts of concrete to assure continuous paving without interruption when trucks are changed.

### Variable Positioning of Concrete Feeding System by Means of Adjustment in Six Spatial Axes

Regardless of whether the belt or auger conveyor is used, the concrete feeding system can be hydraulically rotated, telescoped, or set at a different angle of inclination. The concrete feeding system can be conveniently adjusted from the operator's platform. A transverse auger is not required for concrete paving with the SP 20 (i).

### Minimal Reconfiguration Time and Effort for Mounting the Offset Paving Mold on the Right or Left Side of the Machine

The big advantage of the SP 20(i) is that the offset paving mold can be mounted as required on the left-hand or right-hand side of the machine - a reconfiguration process that takes only a short time. This means that the paver and the concrete mixer can always travel in the direction of the traffic flow.

### Telescoping Offset Paving Mold Mounts on Both Sides for Complex On-Site Situations

In the rare event that the offset slipform paver cannot advance closely along the paving profile, the mounting of the offset paving mold can be hydraulically telescoped out by up to 1100 mm horizontally.

### Hydraulically Operated Quick-Change System for Time-Saving Exchange of Offset Paving Molds.

The hydraulically operated quick-change system enables time-saving exchange of offset paving molds. A simple operating principle: Lower the machine, drive it forward, and lock - done.

### Combination Offset Paving Mold with a Wide Variety of Easily Exchangeable Inlays

A combination offset paving mold consists of a base construction and individual, separately insertable inlays. The different working widths and geometries achievable with the inlays thus enable a multitude of possible paving applications at low cost. Combination offset paving molds allow the paving of profiles with widths of up to 1.1 m.



**01** The concrete feeding system - either a belt conveyor or an auger conveyor - can be hydraulically rotated to the right or the left. The offset paving mold can be mounted on either the left or right side of the machine and hydraulically telescoped to the side.

# SMART TRANSPORT AND MAINTENANCE CONCEPT

**Rapid Deployment.**  
Compact transport dimensions

**Good Accessibility**  
Easy maintenance

01





02

**01** Easy transportation is a major advantage of the SP 20(i).

**02** User-friendly access to the components makes machine maintenance quick and easy.



### **Minimized Transport Weight and Compact Dimensions for Easy Transportation**

In combination with the machine's compact dimensions, its practical oriented and particularly low transport weight enables easy transportation on a typical transport vehicle without the need for a special permit.

### **Smart Machine Concept for Fast Preparation for Transportation and Repositioning of all Components**

The intelligent combination of components such as the easily detachable, stowable handrails, fold-away platform extensions, the extremely flexible, hydraulically slewable concrete feeding system, the retractable weather canopy, and the compact build ensure fast preparation of the machine for transportation and redeployment at a new location.

### **Large, 500-Liter, On-Board Water Tank Including High-Pressure Cleaner for Easy Cleaning, e.g. the Concrete Feeding System**

The easily fillable integrated water tank on the machine can hold up to 500 liters of water. Also on-board is a hydraulically-powered high-pressure water cleaner for cleaning the entire machine on-site.

### **Outstanding Servicing and Maintenance Friendliness**

Easy access to all servicing and inspection points minimizes servicing and maintenance requirements. Ample stowage space for the high-pressure cleaner, tools, sensors, etc. is also available.

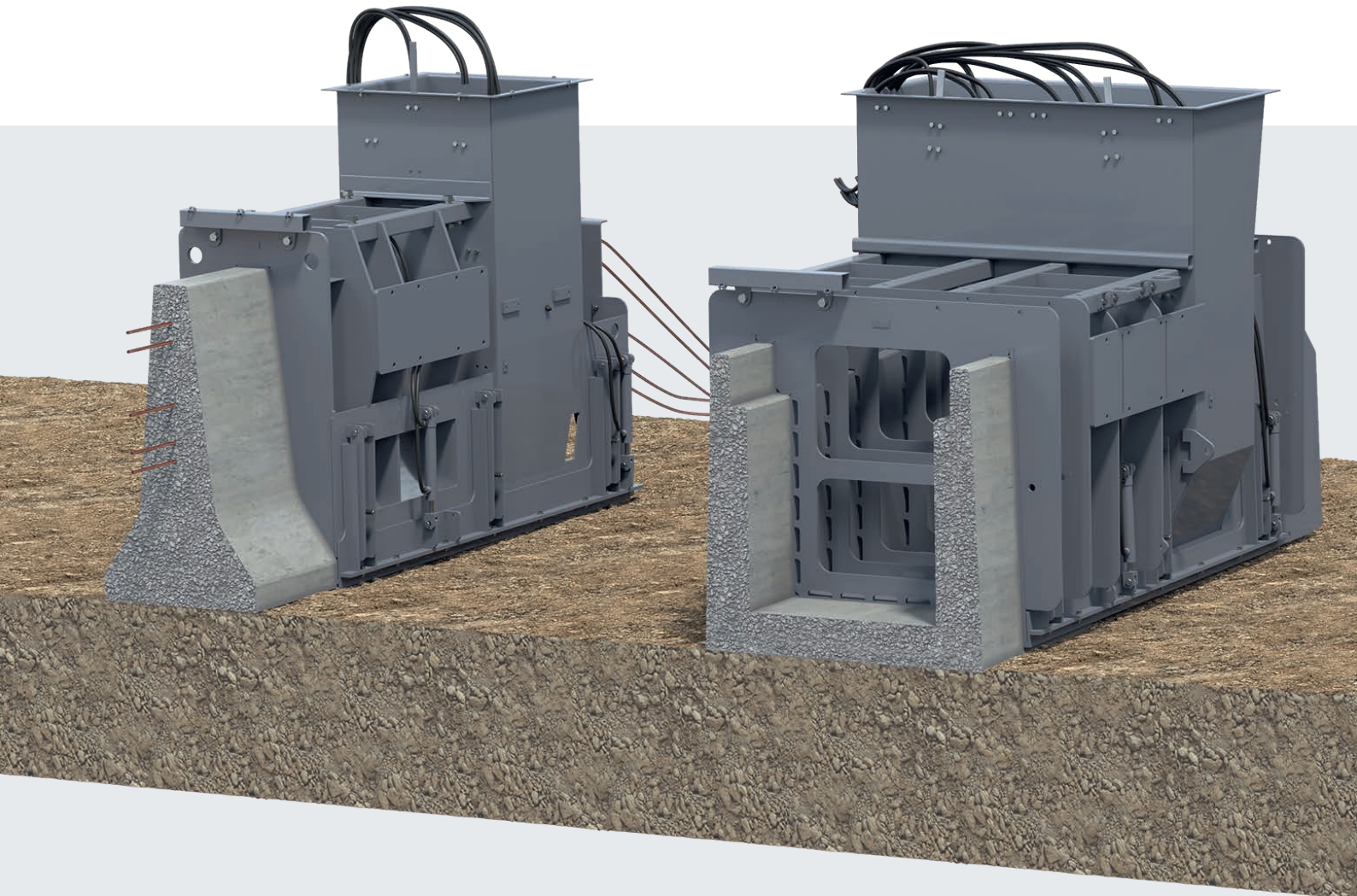
# EXTREMELY COST-EFFICIENT SOLUTION FOR A WIDE RANGE OF APPLICATIONS

## Practice-Oriented Machine Concept - Optimal Cost-Benefit Ratio

Compact, lightweight, and practice-oriented machine: As a purely offset alternative to the WIRTGEN SP 25(i), the SP 20(i) effortlessly masters all typical offset paving challenges in this class - especially large concrete safety barriers - and offers the additional benefit of low operating costs. In a nutshell, this slipform paver offers an extremely attractive cost-performance ratio for the paving of qualitatively superior monolithic profiles by offset paving.

## Paving of Concrete Safety Barriers up to 2.0 m in Height and Monolithic Profiles of All Kinds

The SP 20(i) paves large monolithic profiles with heights of up to 2.0 m. Its repertoire includes concrete safety barriers, curbs, curb / gutter profiles, drainage channels, gutters, narrow roads, service roads, bike paths, and custom profiles. It also allows the integration of a wide variety of different reinforcement options (unreinforced, with steel cables, fully reinforced).



### Offset Paving with Working Widths of up to 2.5 m

This slipform paver is also suitable for the offset paving of roads with widths of up to 2.5 m.

### High Concrete Compaction Performance with up to Ten Hydraulic or Electric Vibrators

The SP 20(i) can be fitted with up to ten high-performance hydraulic vibrators with frequencies that can be individually set as required from the operator's platform. This is essential when paving profiles with complex geometries - e.g. concrete safety barriers - as, to ensure uniform compaction, the vibrators must process the concrete in individual zones with different compaction parameters.

### Standard Construction with Four Crawler units for Stable Machine-Geometry

Four instead of three crawler units increase the machine's traction and stability - an important factor when working on difficult sub-bases and, above all, for precise concrete paving results. The outstanding stability of the machine also enables the use of offset paving molds that are heavier or mounted further away from the chassis.

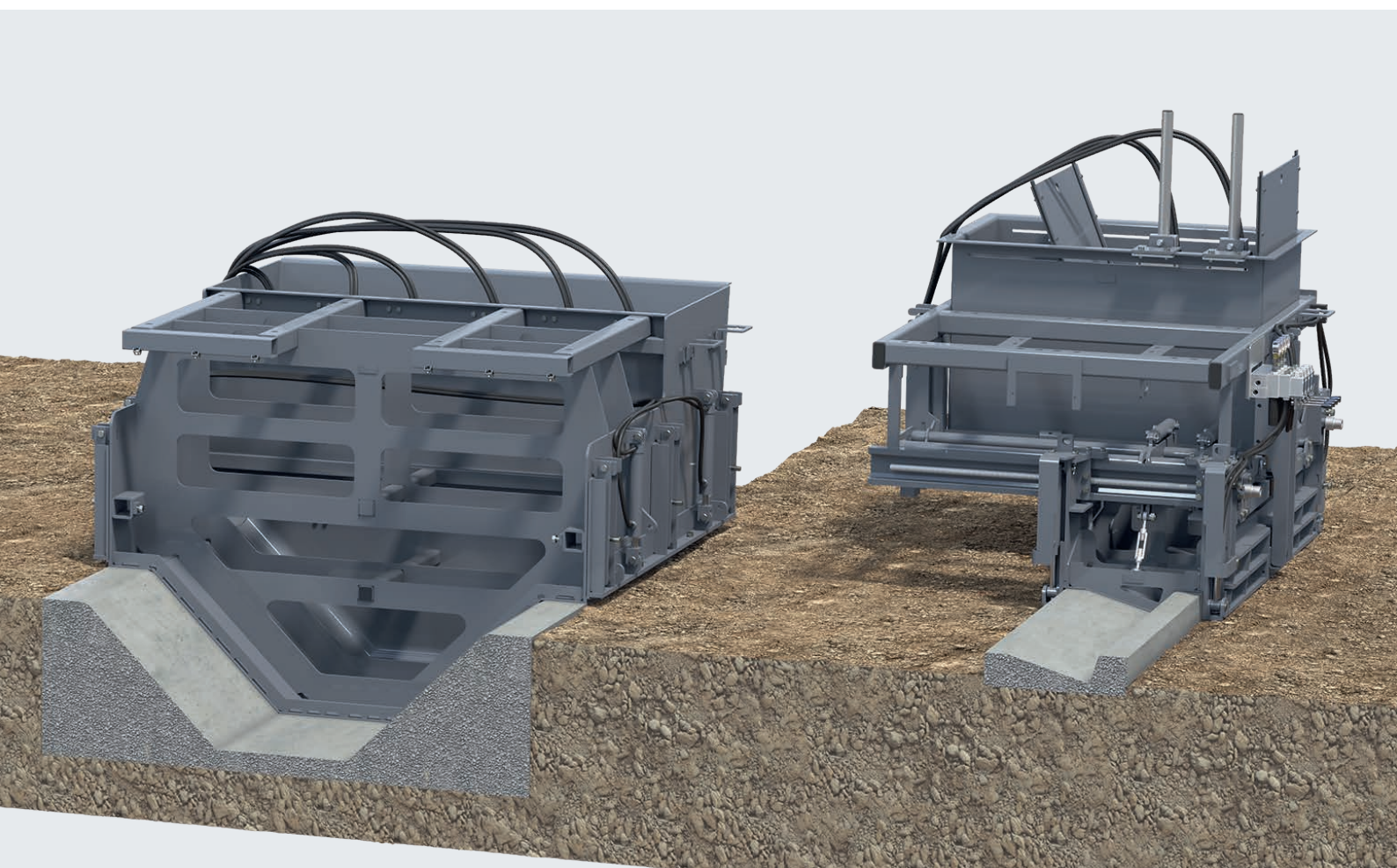
**01** The SP 20(i) offers cost-efficient offset paving for a variety of monolithic concrete profiles.

## Up to 2 m High

Repertoire with many profiles

## Cost-Efficient Offset Concrete Paving

Low operating costs



# PRECISION LEVELING AND STEERING

## Optimized Cornering through Smart Steering and Control Technologies Ensures Maximum Paving Precision

The high-quality machine control system with software developed by WIRTGEN increases both operating safety and the slipform paver's range of applications. The computer-assisted speed adjustment of each individual track unit enables specifications to be adhered to with pinpoint precision, even when paving around curves.

## Precision Control of the Advance Motors in Each Track Unit Assures Homogeneous Concrete Paving Results, Even at Low Speeds

Precision control of the advance motors guarantees jerk-free

travel for precise, homogeneous concrete paving results, even at minimum speed.

## Third Steering and Height Sensor for Tight, Precise Radii

When controlling the machine with a stringline, the operator of the SP 20(i) can simply integrate a third height and steering sensor in the process. When paving outer curves with tight radii, this ensures that the offset paving mold does not collide with the stringline and that the course of the profile corresponds precisely to the set course.

01



### Exact Paving around Corners

Automatic speed variation for all four crawler units

### Higher Speed, Fewer Pitfalls

AutoPilot 2.0 for precision concrete paving without a stringline

**Developed by WIRTGEN - the Electronic Cross Slope Control System Assures Perfect Paving Results**

Developed by WIRTGEN on the basis of the field-proven "Rapid-Slope" cross slope sensor, the electronic cross slope control system quickly and reliably compensates for shocks, vibrations, and uneven ground. The significantly shorter machine response times are reflected in precise concrete paving quality.

**Developed by WIRTGEN - the AutoPilot 2.0 Machine Control System Enables Precise Stringless Concrete Paving**

For maximum concrete paving precision, the machine can be controlled without a stringline with the AutoPilot 2.0 system, developed by WIRTGEN. In addition, the software enables the generation of new, digital 3D data models on the construction site. The advantages: It eliminates the need for sur-

veying, setting up, and dismantling of stringlines, and the wires no longer hinder the crew working around the paver or the delivery of concrete to the machine. In turn, this increases the productivity and cost-efficiency of the entire paving process chain.

**Certified Standard Interface for Reliable Communication with the Most Commonly Used 3D Systems**

Thanks to an integrated, field-proven standard interface, the SP 20(i) provides the ideal prerequisites for concrete paving with predetermined digital terrain models. Thorough acceptance procedures to assure compatibility with 3D control systems from leading suppliers guarantee a high degree of operational reliability.

- 01 When paving outer curves with tight radii, the integrated third height and steering sensor enables the achievement of the required profile path.
- 02 AutoPilot 2.0: The Field Rover reads in the relevant points of the object from which the software calculates the ideal course from the virtual stringline.
- 03 Placing the tablet computer in the docking station on the paver enables uncomplicated paving according to the computed course.
- 04 The total station precisely controls the machine height throughout the paving process.



# ENVIRONMENTALLY FRIENDLY MACHINE TECHNOLOGY

01







**01** Offset slipform pavers are energy-saving machines with low fuel consumption and simultaneously low carbon emissions.

**02** Diesel engine control in ECO-Mode can be manually activated.

### **Fuel Economy Optimized Engine with State-of-the-Art Exhaust Treatment Technology**

The fuel economy optimized engine of SP 20(i) ensures low diesel fuel consumption.

The engine technology used in the SP 20 fulfills the requirements of EU Stage 3a / US EPA Tier 3 exhaust emissions standards. Equipped with the latest engine technology for minimizing environmentally harmful emissions, the SP 20i fulfills the stringent requirements of the EU Stage 5 / US Tier 4f exhaust emissions standards.

### **Efficient, Load-Dependent ECO-Mode Diesel Engine Control for Reduced Diesel Fuel Consumption and Lower CO<sub>2</sub> and Noise Emissions.**

The automatic determination of the power requirement ensures that the diesel engine runs at close to optimal efficiency. This enables optimal diesel

fuel economy and simultaneously reduces CO<sub>2</sub> and noise emissions. In load-dependent ECO-Mode, the diesel engine control system identifies every working situation without any operator intervention.

### **Effective Noise Insulation and Elastic Engine Mounts Minimize Noise Emissions**

Effective engine soundproofing, elastic engine mounts, and anti-vibration mounted treads guarantee low noise emissions.

**Reduced CO<sub>2</sub> Emissions, Lower Operating Costs**

ECO-Mode engine control system





The four-track offset slipform paver can pave a wide range of monolithic concrete profiles with heights of up to 2.0 m or concrete surfaces at working widths of up to 2.5 m. In particular, large concrete safety barriers, but also curbs, curb / gutter profiles, channels, channel drains, narrow roads and pathways, and customer-specific special profiles are typical examples of its repertoire. The machine's compact dimensions and optimized weight enable easy and economical transportation from site to site.



TECHNICAL SPECIFICATIONS	SP 20	SP 20 i
Applications	Offset	
<b>Concrete Feeding</b>		
Belt conveyor	Length: 4,900 mm, belt width: 600 mm	
Auger conveyor (optional)	Length: 4,600 mm, auger diameter: 400 mm	
<b>Equipment for Offset Concrete Paving</b>		
Configuration	Left or right	
Lateral mold adjustment	1,100 mm	
Mold height adjustment (optional)	400 mm	
Max. Mold height	2,000 mm <sup>1)</sup>	
Max. mold width	2,500 mm <sup>1)</sup>	
<b>Vibrators</b>		
Connections for hydraulic vibrators	5 or 10 (optional)	
Connections for electric vibrators (optional)	5 or 10	
<b>Engine</b>		
Engine manufacturer	Deutz	Deutz
Type	TCD 2012 L06 2V AG3	TCD 4.1 L4
Cooling system	Water	Water
Number of cylinders	6	4
Rated power at 2,100 rpm	118 kW / 158 hp / 160 PS	115 kW / 154 hp / 156 PS
Displacement	6,057 cm <sup>3</sup>	4,040 cm <sup>3</sup>
Fuel consumption under full load   on-site mix	32.0 l/h   14.3 l/h	30.2 l/h   13.5 l/h
Engine sound power level according to EN 500-6   operator's platform	≤ 103 dB(A)   ≥ 80 dB(A)	≤ 100 dB(A)   ≥ 82 dB(A)
Exhaust emission standard	EU Stage 3a / US EPA Tier 3	EU Stage 5 / US EPA Tier 4f

TECHNICAL SPECIFICATIONS	SP 20	SP 20i
<b>Electrical System</b>		
Power supply	24 V	
<b>Tank Capacities</b>		
Fuel tank	440 l	375 l
AdBlue® / DEF <sup>2)</sup>	-	20 l
Hydraulic oil	135 l	
Water tank	500 l	
<b>Handling Characteristics</b>		
Working speed	0 - 15 m/min	
Travel speed	0 - 35 m/min	
<b>Track Units</b>		
Number	4	
Configuration	2 x rear / 2 x front	
Dimensions (L x W x H)	1,340 x 260 x 550 mm	
<b>Machine Height Adjustment</b>		
Hydraulic height adjustment	1,000 mm	
Mechanical height adjustment	560 mm	
<b>Transport Dimensions (L x W x H)<sup>3)</sup></b>		
Base machine without concrete feeding system	5,200 x 2,500 x 2,900 mm	
Base machine with belt conveyor	8,400 x 2,500 x 2,950 mm	
Base machine with auger conveyor	7,900 x 2,500 x 2,950 mm	
<b>Machine Weights</b>		
Operating weight, CE <sup>4)</sup>	11,000 - 18,900 kg	

<sup>1)</sup> Other special applications are available on request

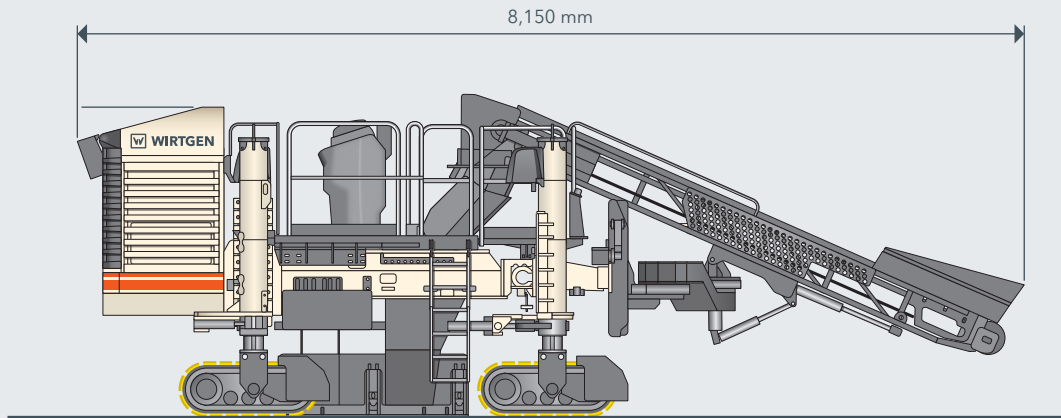
<sup>2)</sup> AdBlue® is a registered trademark of the German Association of the Automotive Industry (Verband der Automobilindustrie e. V.; VDA)

<sup>3)</sup> All dimensions stated here are minimum values without an offset mold mounted on the paver

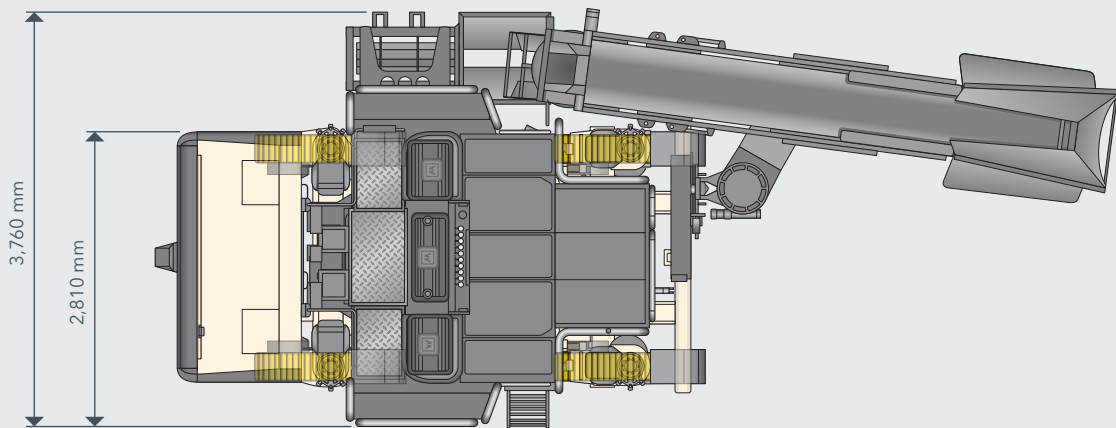
<sup>4)</sup> Weight of machine, half weight of all consumables, machine operator (75 kg), on-board tool kit, no optional equipment; weights depend on the actual equipment installed and the working width

SIDE VIEW / TOP VIEW SP 20(i)

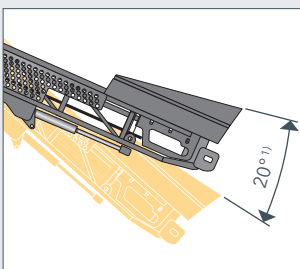
Base machine fitted with belt conveyor



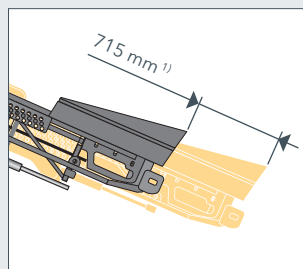
Working direction



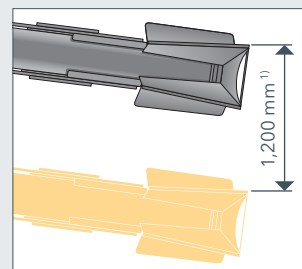
Variable pitch, belt conveyor



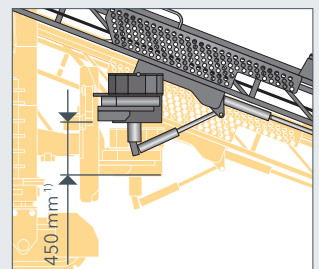
Longitudinal shift, belt conveyor



Transverse shift, belt conveyor



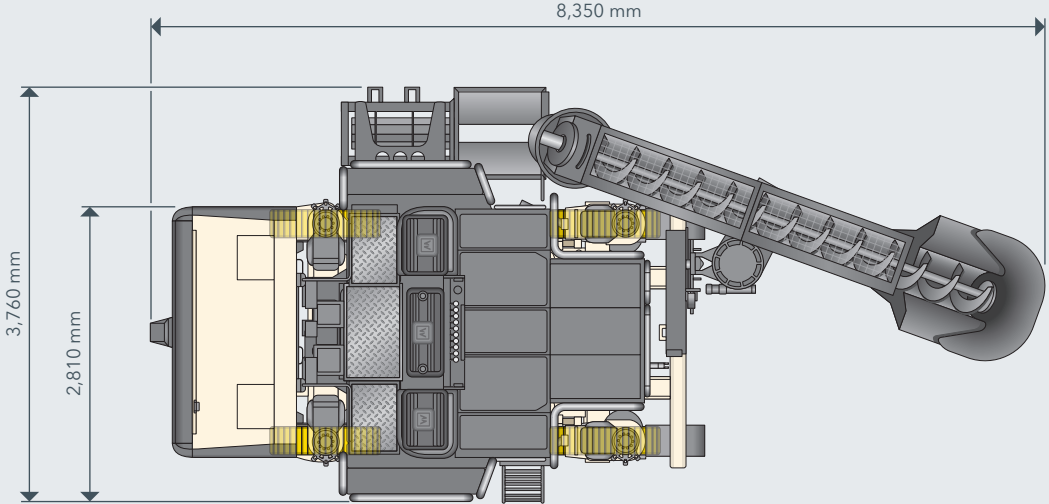
Height adjustment, concrete feeding unit



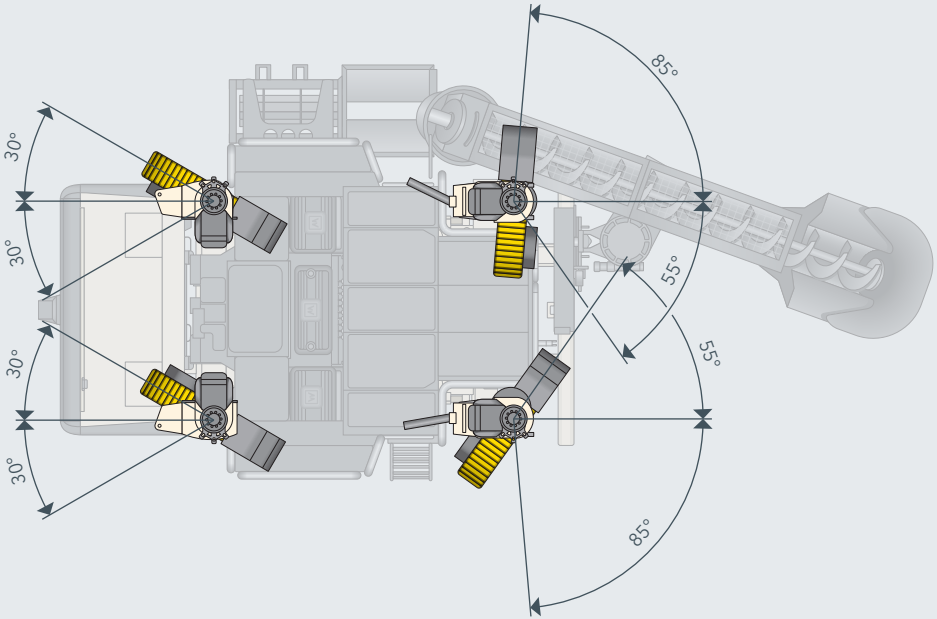
<sup>1)</sup> Figures also apply to auger conveyor

### TOP VIEW SP 20(i)

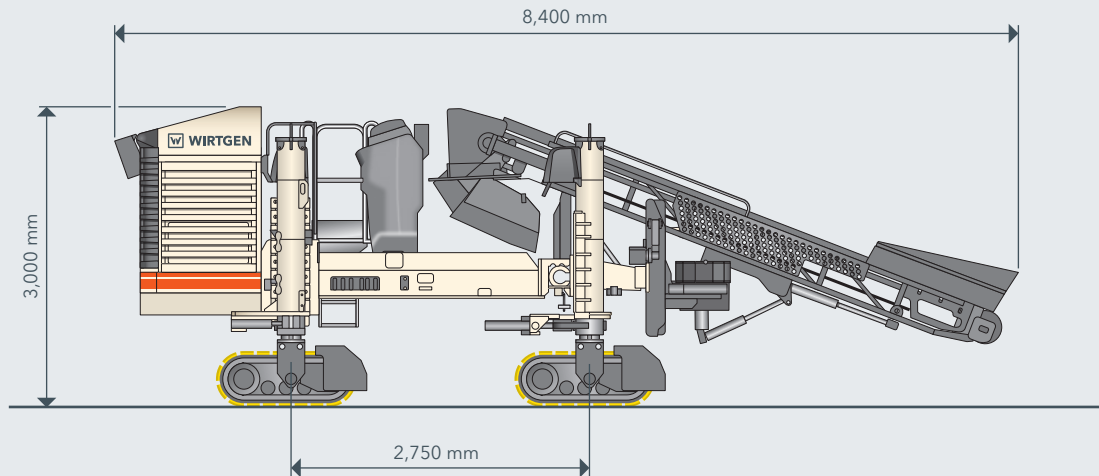
Base machine fitted with auger conveyor



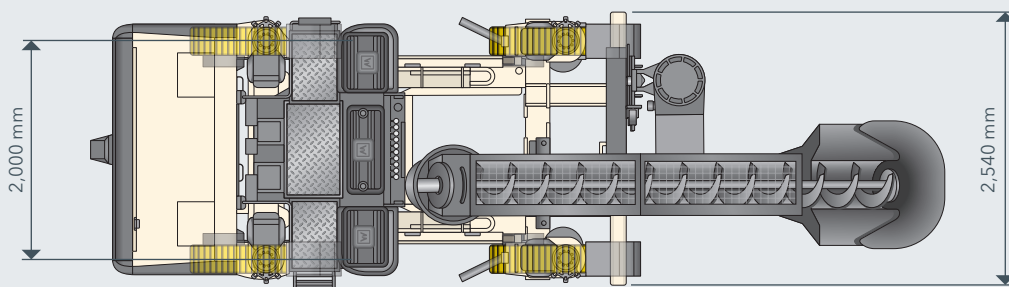
Maneuvering radius



TRANSPORT DIMENSIONS SP 20(i)



Working direction





STANDARD EQUIPMENT	SP 20	SP 20 i
<b>Basic Machine</b>		
> 375 l fuel tank	■	■
> 250 l hydraulic oil tank	■	■
> Electrical system (24 V)	■	■
> Pressure-and-flow-controlled hydraulic pump, open circuit, for driving the track units	■	■
> A hydraulic pump controlled by pressure and delivery flow, open circuit, for driving the hydraulic vibrators or for driving the crawler units in 2nd gear	■	■
> Pressure-controlled hydraulic pump (open circuit) for all cylinder functions	■	■
> A proportionally controlled hydraulic pump (closed circuit) for driving the auger conveyor or belt conveyor	■	■
<b>Main Frame and Height Adjustment</b>		
> Stable frame designed for attaching two track units at the front and two at the rear	■	■
<b>Crawler Units and Chassis Linkage</b>		
> Four hydraulically driven crawler units, 1,340 mm long, 260 mm wide, transmission ratio of 1:42, including device for towing away	■	■
> Continuously adjustable paving speed from 0 to 15 m/min	■	■
> Continuously adjustable transport speed from 0 to 35 m/min	■	■
> Four leveling hydraulic cylinders with 1,000 mm stroke	■	■
> Model with four B1 crawler units (3 rollers) with triple grouser steel track pads	□	□
<b>Machine Control, Leveling and Steering</b>		
> Digital control system with LCD display that provides the operator with all of the relevant information and allows parameters such as the free choice of language (D / GB / F / E / NL) to be adjusted via a menu	■	■
> Proportional electrohydraulic leveling and steering by means of a PLC system including two leveling sensors, two steering sensors and one slope sensor	■	■
> Sensor mounting brackets, adjustable in height and range	■	■
<b>Vibration</b>		
> Hydraulic vibrator drive for up to 5 vibrators	■	■
> Two straight vibrators D66, hydraulically driven	□	□
<b>Concrete Feeding System</b>		
> Belt conveyor 4.90 m x 0.60 m with reversible hydraulic drive, hydraulically adjustable - without preliminary equipment	□	□
> Preliminary equipment for concrete feeding unit	□	□
> Steel chute is used to guide the concrete to the offset mold	□	□
<b>Concrete Equipment for Offset Paving</b>		
> The offset paving molds can be mounted on the left or right side of the machine	■	■
> Offset mold mount telescoping hydraulically to one side; stroke: 1.10 m	□	□
> Offset paving mold up to 0.60 m wide, max. height of 0.40 m (see form TEI#2170960)	□	□
<b>Operator's Platform</b>		
> Standard operator's platform, can be accessed from the left or right	□	□
<b>Miscellaneous</b>		
> Pre-fitting for installing the WITOS FleetView control unit	■	■
> European type certification, EuroTest mark and CE conformity	■	■
> Standard painting in RAL 9001 (cream)	□	□
> WITOS - 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 20	SP 20 i
<b>Crawler Units and Chassis Linkage</b>		
> Model with four B1 crawler units (3 rollers), with polyurethane track pads	<input type="checkbox"/>	<input type="checkbox"/>
<b>Machine Control, Leveling and Steering</b>		
> Two slab tracers	<input type="checkbox"/>	<input type="checkbox"/>
> Third height and steering sensor for paving in corners with tight radii	<input type="checkbox"/>	<input type="checkbox"/>
> Pre-fitting for 3D leveling	<input type="checkbox"/>	<input type="checkbox"/>
> Additional slope sensor for 3D leveling	<input type="checkbox"/>	<input type="checkbox"/>
> AutoPilot 2.0 (868 - 870 MHz) with Field Rover	<input type="checkbox"/>	<input type="checkbox"/>
> AutoPilot 2.0 (902 - 928 MHz) with Field Rover	<input type="checkbox"/>	<input type="checkbox"/>
> Training for AutoPilot 2.0 - Price on demand	<input type="checkbox"/>	<input type="checkbox"/>
> Amplifier to extend the range of the AutoPilot signal. Radio frequency: 868 - 870 MHz.	<input type="checkbox"/>	<input type="checkbox"/>
> Amplifier to extend the range of the AutoPilot signal. Radio frequency: 902 - 928 MHz.	<input type="checkbox"/>	<input type="checkbox"/>
> Laser transmitter for AutoPilot 2.0 including stand	<input type="checkbox"/>	<input type="checkbox"/>
> Laser receiver for AutoPilot 2.0	<input type="checkbox"/>	<input type="checkbox"/>
> Ultrasonic sensor for AutoPilot 2.0	<input type="checkbox"/>	<input type="checkbox"/>
> Total station Leica iCON iCR80s for AutoPilot 2.0, 868 - 870MHz	<input type="checkbox"/>	<input type="checkbox"/>
> Total station Leica iCON iCR80s for AutoPilot 2.0, 902 - 928MHz	<input type="checkbox"/>	<input type="checkbox"/>
> Additional tablet computer with case for AutoPilot 2.0	<input type="checkbox"/>	<input type="checkbox"/>
<b>Vibration</b>		
> Two curved vibrators D66, hydraulically driven	<input type="checkbox"/>	<input type="checkbox"/>
> Model without vibrators	<input type="checkbox"/>	<input type="checkbox"/>
> Hydraulic vibration, addition (5x)	<input type="checkbox"/>	<input type="checkbox"/>
> Straight vibrator D66, hydraulically driven	<input type="checkbox"/>	<input type="checkbox"/>
> Curved vibrator D66, hydraulically driven	<input type="checkbox"/>	<input type="checkbox"/>
<b>Concrete Feeding System</b>		
> Charging auger 4.60 m x 0.40 m with reversible hydraulic drive, hydraulically adjustable - without preliminary equipment	<input type="checkbox"/>	<input type="checkbox"/>
> Model without concrete feeding	<input type="checkbox"/>	<input type="checkbox"/>
> Steel-rubber chute is used to guide the concrete to the offset mold.	<input type="checkbox"/>	<input type="checkbox"/>
<b>Concrete Equipment for Offset Paving</b>		
> Offset mold mount telescoping hydraulically to both sides; stroke: 1.10 m	<input type="checkbox"/>	<input type="checkbox"/>
> Model without offset paving mold	<input type="checkbox"/>	<input type="checkbox"/>
> Model without suspension for offset paving molds	<input type="checkbox"/>	<input type="checkbox"/>
> Offset paving mold up to 0.60 m wide, max. height of 0.40 m	<input type="checkbox"/>	<input type="checkbox"/>
> Offset paving mold from 0.60 m to 1.20 m wide, max. height of 0.40 m	<input type="checkbox"/>	<input type="checkbox"/>
> Offset paving mold from 1.20 m to 1.80 m wide, max. height of 0.40 m	<input type="checkbox"/>	<input type="checkbox"/>
> Offset paving mold up to 0.90 m high, max. base width of 0.60 m, including hopper	<input type="checkbox"/>	<input type="checkbox"/>
> Offset paving mold up to 1.30 m high, max. base width of 0.60 m, including hopper	<input type="checkbox"/>	<input type="checkbox"/>
> Split offset paving mold up to 0.60 m wide, max. height of 0.40 m	<input type="checkbox"/>	<input type="checkbox"/>
> Split offset paving mold from 0.60 m to 1.20 m wide, max. height of 0.40 m	<input type="checkbox"/>	<input type="checkbox"/>
> Split combined offset mold up to 0.75 m in width and a maximum of 0.40 m in height	<input type="checkbox"/>	<input type="checkbox"/>
> Split combined offset mold up to 1.10 m in width and a maximum of 0.40 m in height	<input type="checkbox"/>	<input type="checkbox"/>
> Bottom part for split offset paving mold (AV) up to 0.60 m wide (max. height of 0.40 m)	<input type="checkbox"/>	<input type="checkbox"/>
> Bottom part for split offset paving mold (AV) from 0.60 m to 1.20 m wide (max. height of 0.40 m)	<input type="checkbox"/>	<input type="checkbox"/>

OPTIONAL EQUIPMENT	SP 20	SP 20i
<b>Concrete Equipment for Offset Paving</b>		
> Profile insert for split combined offset mold up to 0.75 m in width	<input type="checkbox"/>	<input type="checkbox"/>
> Profile insert for split combined offset mold up to 1.10 m in width	<input type="checkbox"/>	<input type="checkbox"/>
> Height adapter for split offset paving molds	<input type="checkbox"/>	<input type="checkbox"/>
> Height-adjustable mold mount with 0.40 m lift for split offset mold	<input type="checkbox"/>	<input type="checkbox"/>
> Hydraulic quick-change system for offset paving mold (one-piece mold)	<input type="checkbox"/>	<input type="checkbox"/>
> Additional adapter plate for quick-change system	<input type="checkbox"/>	<input type="checkbox"/>
> Hydraulic quick-change system for offset paving mold (two-piece mold)	<input type="checkbox"/>	<input type="checkbox"/>
> Set of hydraulic components for adjusting the sideplate of an EV offset paving mold	<input type="checkbox"/>	<input type="checkbox"/>
> Set of hydraulic components for adjusting the sideplate of an AV offset mold	<input type="checkbox"/>	<input type="checkbox"/>
<b>Operator's Platform</b>		
> XL operator's platform with a transport device for the auger conveyor, access ladder on the left and right	<input type="checkbox"/>	<input type="checkbox"/>
> XL operator's platform with a transport device for the belt conveyor, access ladder on the left and right	<input type="checkbox"/>	<input type="checkbox"/>
> Weather umbrella for operator's platform	<input type="checkbox"/>	<input type="checkbox"/>
> Weather canopy for operator's platform, hydraulically telescoping in height	<input type="checkbox"/>	<input type="checkbox"/>
<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"/>
> WITOS - professional telematics solution for machine operation and service optimization	<input type="checkbox"/>	<input type="checkbox"/>
> Model without WITOS	<input type="checkbox"/>	<input type="checkbox"/>
> High-performance lighting system including 4 LED working lights, 24 V	<input type="checkbox"/>	<input type="checkbox"/>
> High-performance lighting system including 8 LED working lights, 24 V	<input type="checkbox"/>	<input type="checkbox"/>
> Hydraulic high-pressure water cleaning system, 500 liter steel tank	<input type="checkbox"/>	<input type="checkbox"/>
> Additional electrical water pump, 24 V, with 10 m hose and spray gun with handle	<input type="checkbox"/>	<input type="checkbox"/>
> Camera system consisting of 1 camera and 1 screen, expandable to up to 6 cameras	<input type="checkbox"/>	<input type="checkbox"/>
> Additional camera as an extension to an existing camera system	<input type="checkbox"/>	<input type="checkbox"/>
> Two LED floodlights including power generator (110 V)	<input type="checkbox"/>	<input type="checkbox"/>
> Two LED floodlights including power generator (230 V)	<input type="checkbox"/>	<input type="checkbox"/>
> Two LED floodlights 24 V	-	<input type="checkbox"/>
> 110 volt power generator, hydraulically driven, rated power of 4 kW.	<input type="checkbox"/>	<input type="checkbox"/>
> 230 volt power generator, hydraulically driven, rated power of 4 kW.	<input type="checkbox"/>	<input type="checkbox"/>
> Radio remote control for controlling the mold hydraulics	<input type="checkbox"/>	<input type="checkbox"/>
> Wired control unit for the mold hydraulics which can be connected to an existing radio system	<input type="checkbox"/>	<input type="checkbox"/>
> Additional storage compartment at machine rear	<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"/>
> Stringline tensioning system, complete with 4 x 300 m nylon rope	<input type="checkbox"/>	<input type="checkbox"/>
> Radius kit, fiberglass rod as stringline replacement for paving in corners with different radii	<input type="checkbox"/>	<input type="checkbox"/>
> Machine commissioning (day rate)	<input type="checkbox"/>	<input type="checkbox"/>
> Export packaging	<input type="checkbox"/>	<input type="checkbox"/>

■ = Standard equipment

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

□ = Optional equipment

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