

The benchmark for 2-track concrete paving up to 40 ft Slipform Paver SP 102i





At a Glance: Outstanding Features of the SP 102 i

Machine concept

1 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.

2 | SOPHISTICATED TRANSPORT CONCEPT

Compact dimensions and the two-track design of the SP 102i ensure ease of transport as well as quick setup and operational readiness. Super smoother and concrete spreading equipment can remain mounted on the machine during transport.

Concrete equipment

31 EXCEPTIONAL VERSATILE CONCRETE PAVING

The slipform paver achieves perfection in the highly precise paving of standard concrete slabs at widths ranging from 16 ft to 40 ft and layer thicknesses of up to 18 in.

4 PROVEN SLAB PAVING MOLD

Customers get the highly accurate and durable 1310 wi series imperial inset slab paving mold with removable wear sole. The mold can be equipped with up to three crown profiles for parabolic crown paving depending on the machine's configuration.

51 PRECISE COMPACTION TECHNOLOGY

The machine is equipped with an hydraulic vibrator drive to ensure precise compaction in any site condition. It comes with 18 hydraulic connectors in standard design but can optionally be fitted with a vibrator drive for 30 hydraulic vibrators.

- > Economical two-tracked paver for a wide variety of paving applications at working widths of up to 40 ft
- > Covers the common paving sizes for road, airport and residential paving projects
- > Easy modification for transport and quick availability on site
- > Exceptionally low machine ground pressure



Engine technology and operation

61 EFFICIENT ENGINE MANAGEMENT

The ECO mode feature automatically adjusts the engine speed to the current power requirements, thus ensuring engine efficiency, lower exhaust emissions and low noise emissions.

WISH TO LEARN MORE?

See further product information.



Machine Control and Steering

91 HIGH-PRECISION STEERING AND DRIVE SYSTEMS

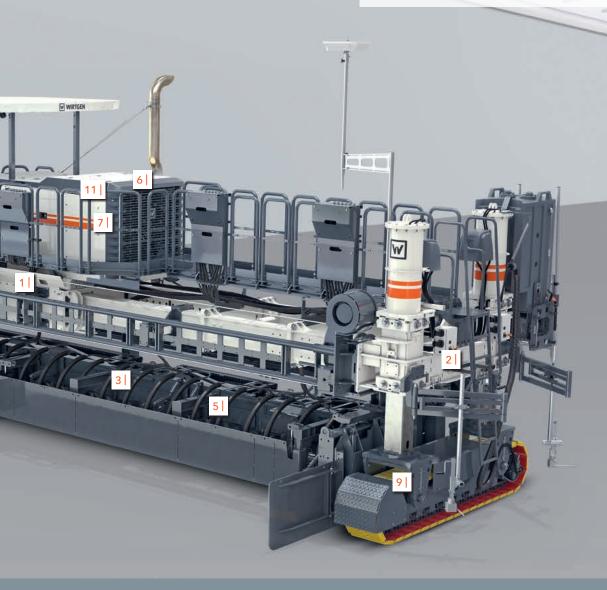
Intelligent control systems for exceptionally smooth operation and the highly responsive skid steering system ensure precision in concrete paving.

10 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.

11 | FIELD-PROVEN 3D INTERFACE

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



7 STATE-OF-THE-ART ENGINE TECHNOLOGY

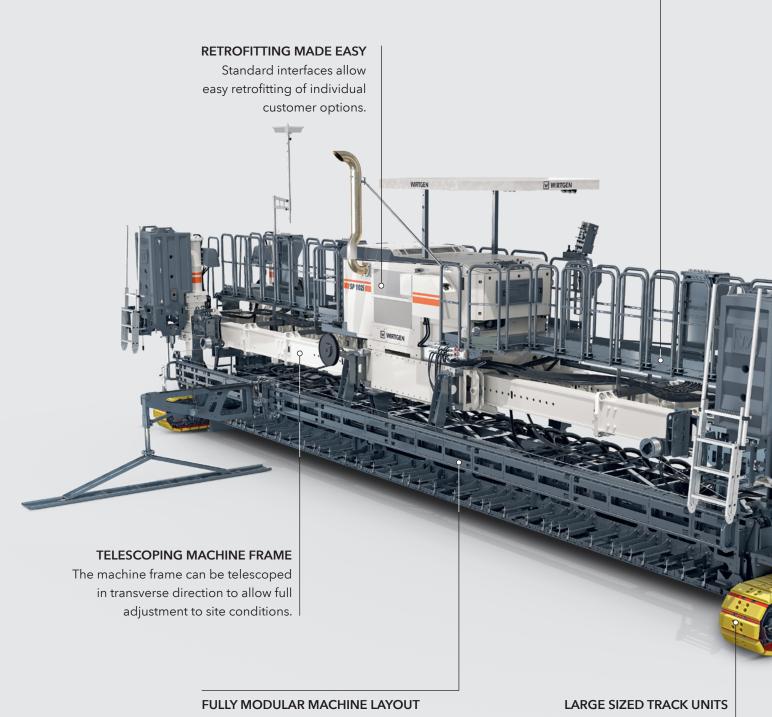
The SP 102i features state-of-the-art, high-performance engine technology (Rated power: 231 kW / 310 HP / 314 PS) complying with exhaust emission standard US EPA Tier 4f.

8|

PERFECTION IN ERGONOMICS AND HANDLING

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

Machine Concept



The paver's fully modular design provides a wide variety of inset paving applications.

The two track concept and track units with a large contact area distribute the machine weight evenly and lead to an exceptionally low machine ground pressure.

EASE OF MODIFICATION

Ease of modification and the effortless addition of complementary features enable for complex customer-specific applications.



HEAVY-DUTY DESIGN

The paver's main frame, track units and height columns are exceptionally robust in design to allow precise paving results at high daily performance rates throughout the entire service life.

HIGH MACHINE WEIGHT

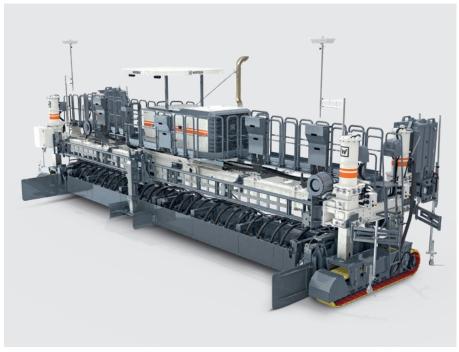
The machine's high weight optimizes the paving process especially when operating at larger paving widths.

EASE OF TRANSPORT

The minimum effort required to modify the machine for transport shortens setup times, reduces operating costs and optimizes the machine availability.

ADAPTABLE TO SITE CONDITIONS

The machine has been engineered to ensure reliable adaptability to site conditions, thus increasing both productivity and the range of applications.



SP 102 i front view

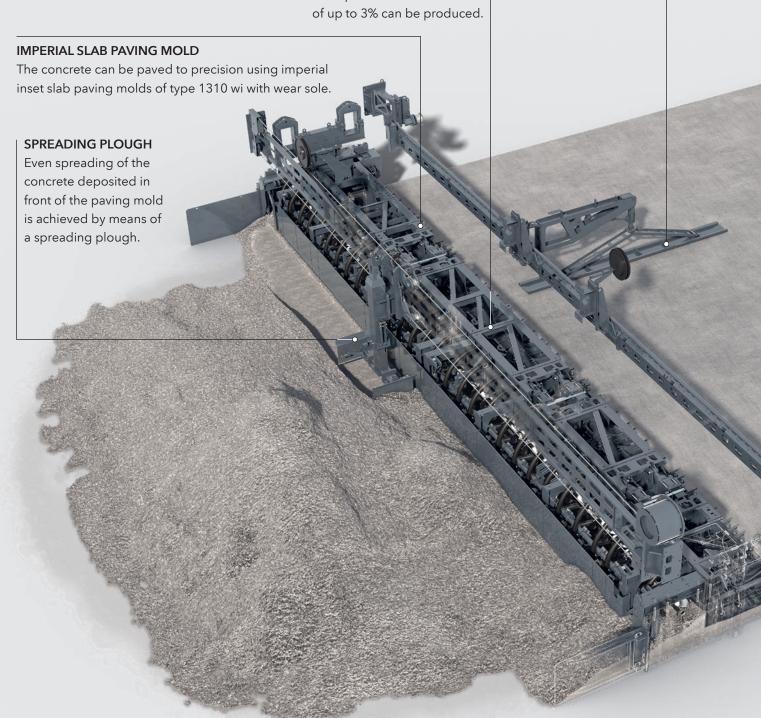
Concrete Equipment

SUPER SMOOTHER

The oscillating super smoother manufactured from high-quality material ensures a perfect surface finish.

CONCRETE SLABS WITH CROWN

Concrete pavements with a crown



HYDRAULIC VIBRATORS

The paver comes with 18 hydraulic connectors for hydraulic vibrator drive in the standard equipment package (optional up to 30).

CONCRETE SLABS FROM 16 FT TO 40 FT WIDE

High-precision, high-quality paving of concrete slabs at widths ranging from 16 ft to 40 ft.

SEPARATE SIDE TIE BAR INSERTERS

Side tie bars are inserted to allow the paving of adjacent concrete slabs.

EDGE SLUMP CONTROL

Hydraulic ESC "Edge Slump Control" inserts for the outer edges of the mold contribute to achieving high-quality paving results. Optionally the ESC inserts can be exchanged with curb inserts to create curb profiles simultaneously.



Separate side tie bar inserter



Edge Slump Control



Engine Technology and Operation

ERGONOMIC DESIGN

The ergonomically designed operator's platform improves operator performance and therefore increases the machine's overall productivity.



ENGINE TECHNOLOGY COMPLYING WITH US EPA TIER 4f

The powerful diesel engine installed in the SP 102 i complies with the strict specifications of exhaust emission standards US EPA Tier 4f.

HIGH ENGINE POWER

The high-powered engine ensures effective concrete paving in the optimum performance and torque ranges.

PERFECT VISIBILITY

The spacious operator's platform provides a perfect view of the paving process.

TELESCOPING WEATHER CANOPY

The weather canopy can be telescoped electrohydraulically even with the engine switched off and allows paving to continue regardless of weather conditions.

EASE OF MAINTENANCE

Ready access to all maintenance and inspection points minimizes maintenance requirements.

PERFORMANCE-OPTIMIZED ECO MODE ENGINE MANAGEMENT

Automatic adjustment of the engine speed according to the current power requirements, thus ensuring highest engine efficiency, fuel economy and low exhaust and noise emission levels. The ECO mode feature detects the current paving situation without the need for manual intervention, thus relieving the operator of a part of his workload.

STANDARDIZED OPERATING CONCEPT

The standardized, selfexplanatory operating concept fits seamlessly into the operating concept of the current range of WIRTGEN slipform pavers, leading to synergy effects.

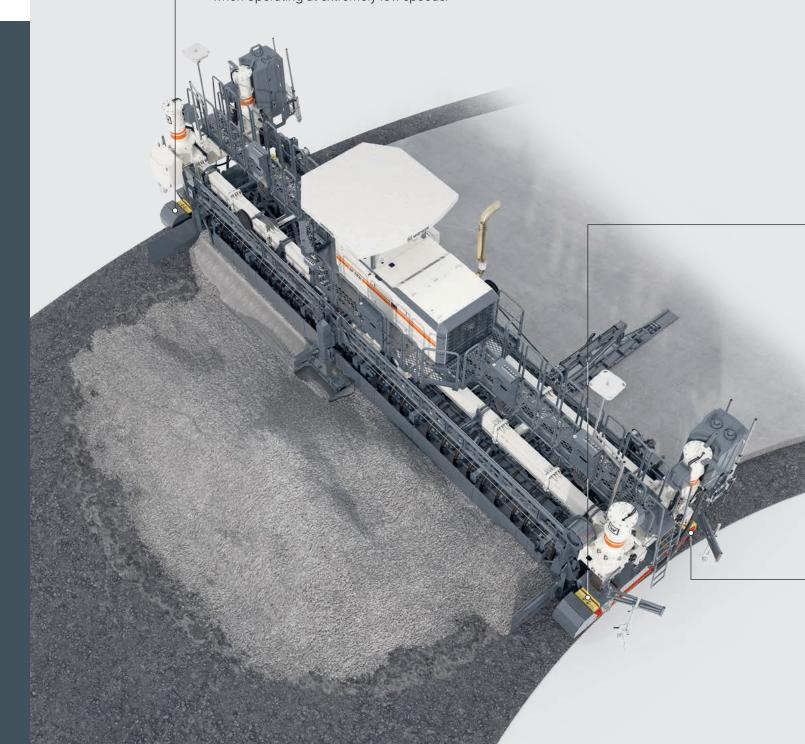


Ergonomically optimized, clearly structured operating concept

Machine Control and Steering

HIGH-PRECISION DRIVE MOTOR CONTROL

High-precision drive motor control guarantees smooth machine travel even when operating at extremely low speeds.



HIGH-QUALITY MACHINE CONTROL SYSTEM

The high-quality machine control system includes software developed inhouse and increases the slipform paver's operational reliability and range of applications.

SERVICE DIAGNOSTIC SYSTEM

The WIDIAG service diagnostic system with standardized interface ensures quick, specific diagnostics right on site.

EXPANDABLE CAN-BUS SYSTEM

The existing CAN-bus system can be expanded for easy retrofitting of customer-specific options.

EFFICIENT WITOS TELEMATICS SYSTEM

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

STANDARDIZED OPTIONAL INTERFACE FOR 3D CONTROL SYSTEMS

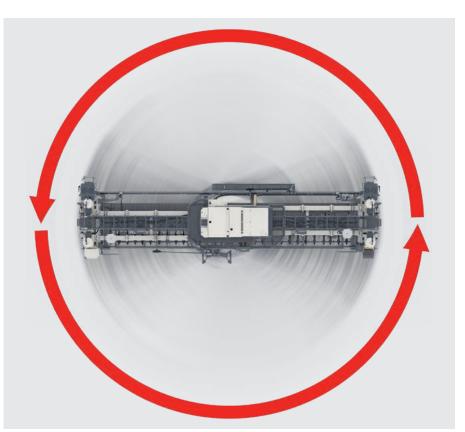
The integrated standard interface creates ideal conditions for the use of state-of-the-art 3D systems in concrete paving. Thorough acceptance procedures verifying compatibility with the 3D control systems of leading suppliers ensure safety of use.

TRIED-AND-TESTED SKID STEERING SYSTEM

The highly responsive skid steering system installed in the SP 102i ensures precise handling and highest concrete quality when paving in curves.

SPEED ADJUSTMENT

Computer-controlled speed adjustment of each track unit allows pinpoint adherence to specifications even when paving in bends.



Turning on its own axis: The two track units of the SP 102 i rotate in opposite direction at the push of a button, enabling the slipform paver to turn on its own axis for maximum manoeuvrability.

Technical Specification

SP 102i

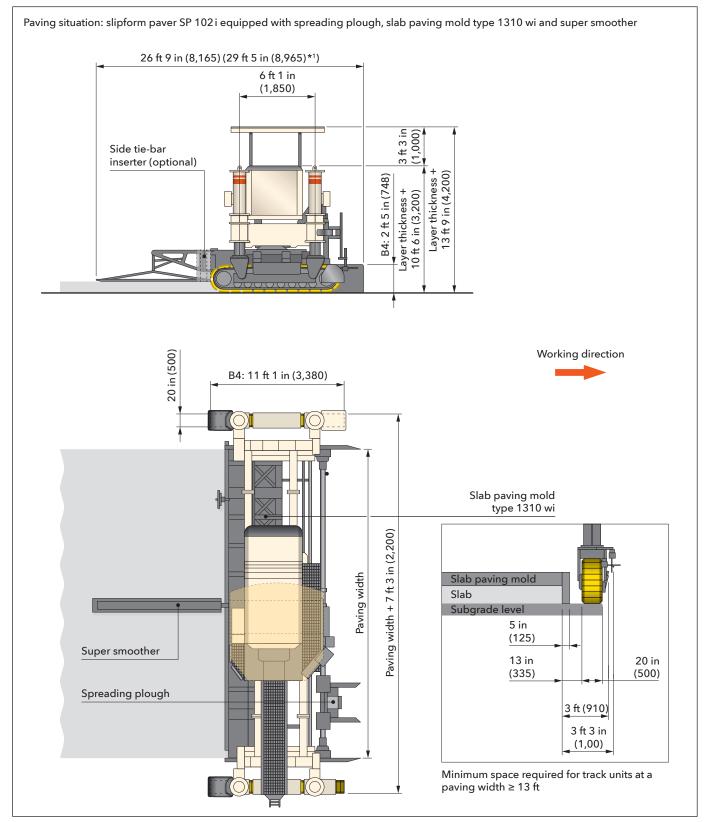
Area of Application	
Inset application without crown profile	Paving width: 16 ft to 40 ft* ¹ Paving height: up to 18 in (450 mm)* ¹
Inset application with crown profile	Paving width: 16 ft to 40 ft*1 Paving height: up to 18 in (450 mm)*1
Concrete Spreading	
Spreader plow	Modularly extendable up to 40 ft
Paving Equipment	
Type 1310 wi paving mold (Removable wear sole, without crown profile function)	Modularly extendable up to 40 ft
Type 1310 wi paving mold (Removable wear sole, with or without crown profile function)	Modularly extendable up to 40 ft
Super smoother	Modularly extendable up to 40 ft
Vibrators and Circuits	
Hydraulic vibration	18 connectors (optional: 24 or 30)
Hydraulically powered vibrators	Bent / straight (D66)
Engine	
Engine manufacturer	Cummins
Туре	L9 C-310
Cooling	Water
Number of cylinders	6
Rated power at 2,100 rpm	231 kW / 310 HP / 314 PS
Displacement	8.9 l (8,900 cm³)
Fuel consumption, full load \mid fuel consumption $^2/_3$ load	16.5 gal / h (62.5 l / h) 11.0 gal / h (41.7 l / h)
Sound power level in accordance with EN 500-2, engine operator's platform	≤ 101 dB(A) ≥ 82 dB(A)
Emissions standards	US EPA Tier 4f
Electrical System	
Power supply	24 V DC

Tank Capacities	
Fuel	132 gal (500 l)
AdBlue® / DEF*2	15 gal (57 l)
Hydraulic oil, hydraulic vibration	100 gal (380 l)
Water	145 gal + 145 gal (550 l + 550 l)
Driving Performance	
Advance speed while paving	0 to 16 ft / min (0 to 5 m / min)
Speed in driving gear	0 to 65 ft / min (0 to 20 m / min)
Crawler Units	
Number	2
Type B4: Dimensions (L x W x H)	11 ft 1 in x 20 in x 2 ft 5 in (3,380 x 500 x 748 mm)
Height Adjustment	
Hydraulic	3 ft 3 in (1,000 mm)
Crown Profile	
Variable adjustment range	At paving widths of 16 ft to 28 ft: max. $3\%^{*3}$ At paving widths of 28 ft to 40 ft: max. $2\%^{*3}$
Transport dimensions (L x W x H)	
Paving width 16 ft: Machine including type 1310 wi paving mold, with spreader plow and super smoother	23 ft x 11 ft 10 in x 10 ft 6 in (7,000 x 3,600 x 3,200 mm)
Paving width 40 ft: Machine including type 1310 wi paving mold, with spreader plow and super smoother	46 ft 11 in x 11 ft 10 in x 10 ft 6 in (14,300 x 3,600 x 3,200 mm)
Weight Specifications	
Operating weight CE*4 (with type 1310 wi paving mold), 16 ft	86,000 lbs (39,000 kg)
Machine weight*5	55,000 lbs to 110,000 lbs (25,000 kg to 50,000 kg)

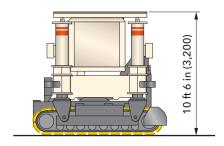
^{*1 =} Special paving widths, paving heights, and options available on request
*2 = AdBlue® is a registered trademark of the German Association of the Automotive Industry (VDA)
*3 = Values within standard transport height; special dimensions on request
*4 = Machine weight, half-full tanks, vehicle tool kits, machine operator (165 lbs (75 kg)), excluding optional equipment
*5 = Weight specifications depend on the installed equipment and paving width

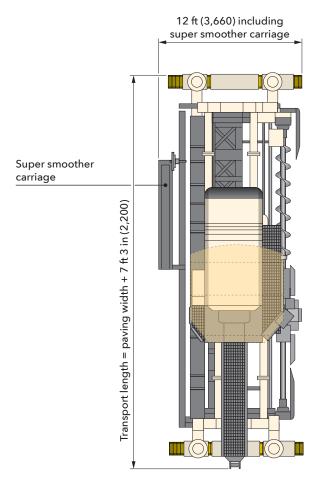
Dimensions

SP 102i



Transport situation: slipform paver SP 102 i equipped with spreading plough, slab paving mold type 1310 wi and super smoother







Standard Equipment

SP 102i

Basic Machine	
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	•
Cooling system with temperature-controlled fan speed	
Electrical system (24 V)	
Fuel tank 132 gal (500 l)	
Main Frame and Height Adjustment	
Robust steel frame, incremental hydraulic telescoping on both sides by up to 9.00 ft, can also be optionally extended using fixed extension pieces	•
The machine frame is pre-fitted with multiple mounting points for the modular addition of a variety of equipment features	
Four hydraulic leveling cylinders with a stroke of 3 ft 3 in (1.00 m)	
Frame sections for continuous hydraulic telescoping to working widths of up to 22 ft 4 in (6.80 m), including extension elements	
Crawler Units and Chassis Linkage	
Model with two B4 track units (8 rollers), fitted with polyurethane track pads	
Machine control, leveling 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 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	
Vibration	
Hydraulic vibrator drive for max. 18 vibrators	
10 curved vibrators D66, hydraulically driven	

Concrete equipment for Slab Paving	
Paving mold series 1310 wi, without crown - basic width 16 ft	
One-piece sideplates for paving molds series 1300 wi / 1310 wi	
Flat inserts for the outer edges of the mold series 1310 wi	
Operator's Platform	
Ergonomically designed operator's platform providing a perfect view of the paving process	
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	
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	
Electrically switchable pendulum axle (left / right / off) for paving with 3 height sensors / slope control sensors	•
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 102i

Main Frame and Height Adjustment	
Frame sections for continuous hydraulic telescoping to working widths up to 31 ft 2 in (9.50 m)	
Frame sections for continuous hydraulic telescoping for working widths up to 40 ft (12.30 m)	
Machine control, leveling and steering	
Cross-slope sensor for machine	
Automatic crown adjustment	
Two slab tracers	
Four slab tracers	
Control unit for manual track unit steering	
Preliminary equipment for 3D leveling with Leica Topcon or Trimble	
Additional slope sensors for 3D leveling	
Concrete Spreading Equipment for Slab Paving	
Spreading plow - basic width 16 ft	
Spreading plow - extension element 1.00 ft	
Spreading plow - extension element 1.50 ft	
Spreading plow - extension element 2.00 ft	
Spreading plow - extension element 4.00 ft	
Spreading plow - extension element 6.00 ft	
Vibration	
Hydraulic vibrator drive for max. 24 vibrators	
Hydraulic vibrator drive for max. 30 vibrators	
Version without vibrators	
Tamper bar with / without crown - basic width 16 ft	
Curved vibrator D66, hydraulically driven	
Tamper bar - extension element 1.00 ft	
Tamper bar - extension element 1.50 ft	
Tamper bar - extension element 2.00 ft	
Tamper bar - extension element 4.00 ft	
Tamper bar - extension element 6.00 ft	
Concrete equipment for slab paving	
Split metering gate for paving molds with / without crown - basic width 16 ft	
Automatic metering gate control for concrete paving mold	
Split grout box auger with / without crown - basic width 16 ft	
Paving mold series 1310 wi, with crown - basic width 16 ft	
Split side plates for start of shift with paving molds series 1300 wi / 1310 wi	
ESC "Edge Slump Control" inserts for the outer edges of the mold series 1310 wi	
Super smoother - basic width 16 ft	
1 side tie bar inserter for straight tie bars, max. $0^{3}/4$ ", length 2.50 ft	
2 side tie bar inserters for straight tie bars, max. ø $^{3}/_{4}$ ", length 2.50 ft	
Metering gate - extension element 1.00 ft	
Metering gate - extension element 1.50 ft	
Metering gate - extension element 2.00 ft	
Metering gate - extension element 4.00 ft	
Metering gate - extension element 6.00 ft	

= Standard equipment

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

Concrete equipment for slab paving	
Grout box auger - extension element 1.00 ft	
Grout box auger - extension element 1.50 ft	
Grout box auger - extension element 2.00 ft	
Grout box auger - extension element 4.00 ft	
Grout box auger - extension element 6.00 ft	
Paving mold series 1310 wi - extension element 1.00 ft	
Paving mold series 1310 wi - extension element 1.50 ft	- i
Paving mold series 1310 wi - extension element 2.00 ft	
Paving mold series 1310 wi - extension element 4.00 ft	
Paving mold series 1310 wi - extension element 6.00 ft	
Profile insert for series 1300 wi / 1310 wi	
Super smoother - extension element 1.00 ft	П
Super smoother - extension element 1.50 ft	П
Super smoother - extension element 2.00 ft	
Super smoother - extension element 4.00 ft	
Super smoother - extension element 6.00 ft	
Operator's Platform	
Weather canopy for operator's platform, hydraulically telescoping in height	
Weather canopy for operator's platform, hydraulically telescoping in height, with LED lighting	
Extension of walkway allowing the operator to pass from one side of the machine to the other, 31 ft (9.50 m)	
Extension of walkway allowing the operator to pass from one side of the machine to the other, 40 ft (12.30 m)	
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Miscellaneous	
Miscellaneous Standard painting in RAL 9001 (cream)	
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 □ = Optional equipment



WIRTGEN AMERICA Inc. 6030 Dana Way · Antioch, TN 37013, USA Phone: (615) 501-0600 · Fax: (615) 501-0691 Internet: www.wirtgen-group.com/america

