

Tracked Paver

SUPER 2100-5 X



PERFECT IN ALL CLASSES

The right paver for every job

VÖGELE’s seamless product range is considered unique in the industry. Whether a service road or a motorway, an airfield or a race track, a new construction or a rehabilitation job, thick or thin, hot or cold - customers will find the right machine in our paver range for every paving task. The X-Tier pavers of the “Dash 5” generation from VÖGELE set the scene for future technical developments.



VÖGELE PRODUCT RANGE

MINI CLASS

- > Maximum paving width
10 ft. 6 in. (3.2 m)
- > Maximum laydown rate
275 tons/h (250 tonnes/h)

COMPACT CLASS

- > Maximum paving width
16 ft. 5 in. (5 m)
- > Maximum laydown rate
385 tons/h (350 tonnes/h)

UNIVERSAL CLASS

- > Maximum paving width
21 ft. (6.4 m)
- > Maximum laydown rate
770 tons/h (700 tonnes/h)

HIGHWAY CLASS

- > Maximum paving width
31 ft. 11 in. (9.75 m)
- > Maximum laydown rate
1,540 tons/h (1,400 tonnes/h)

SPECIAL CLASS

- > SprayJet



LEADING EDGE
Premium edge with innovative technology



"DASH 5" EQUIPPED FOR THE FUTURE

We deliberately skipped a generation for the new "Dash 5" series of pavers, and put all the features of our pavers on the test bench. The aim was to develop a generation of pavers which have maximum output while keeping pace with the breakneck speed of technical progress.

To be perfectly set up for both the present and the future requires a flexible, modular system that can accommodate requirements as they come up. We have taken a fresh look at our pavers, and identified four central areas which have been, still are, and will continue to be key for the development of our machines.



User-friendly Operation

We always start with activities in the field, evaluating the experience of operating teams and integrating that knowledge into our new developments. We claim to deliver safety, maximum user-friendliness, self-explanatory handling and practical ergonomic features.



Process Automation

Technology leadership is part of VÖGELE's DNA: We develop our products innovatively on the basis of decades of experience, so that they meet global standards and keep on setting new benchmarks. Automating processes with assistance and control systems assures precision, efficiency, and process stability.



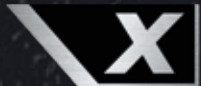
Cost-efficiency

Time, money and cost-efficiency are key factors in the success of road construction. We keep an eye on our customers' absolute costs, and find solutions to reduce setup times, improve logistics, and increase machine availability.



Sustainability

Environmental issues and legislation are challenges we are ready and able to face. We use the latest drive systems and an efficient paver design to reduce fuel and noise emissions, while maintaining output at the same level.



HIGHLIGHT OVERVIEW

Perfectly equipped

DRIVE

01 Drive Concept

- > Powerful and efficient John Deere engine.
- > ECO mode reduces consumption as well as noise and exhaust emissions.

SUSTAINABILITY | GREEN SOLUTION

02 VÖGELE EcoPlus

- > Low-emissions package to reduce fuel consumption and noise emissions even further.

AUTOMATION

03 Pave Assist Plus

- > Pave Assist Plus functions for safe, rapid repositioning on the job site, and for saving custom paving programs.

04 AutoTrac

- > Automatic steering and width control from VÖGELE.

05 Auto Grade Plus

- > Automated Grade and Slope Control for a perfect paving result.
- > Very simple and user-friendly operation.
- > Wide selection of sensors for flexible application.



VÖGELE SUSTAINABILITY describes innovative technologies and solutions that are consistent with the sustainability objectives of the WIRTGEN GROUP.

OPERATION

06 ErgoPlus 5 Operating System

- > Next step in the evolution of VÖGELE's tried and tested operating concept.
- > Better overview, more convenience, and improved ergonomics.
- > Somewhere to store smart devices.
- > Equipped for the future with ErgoPlus 5 Premium Touch.

07 Convenience Package

- > Maximizes user-friendliness for paver operators. The Convenience Package delivers convenience for both paver and screed operators.
- > Paver Access Control makes the paver ready for operation and transport more quickly.

08 Light Package and Light Package Plus

- > More convenience and safety in the dark.
- > Better visibility for a more reliable work process.
- > Integrated lighting reduces setup time during night working.

PAVING

09 Wide Range of Applications

- > Wide range of potential applications at paving widths up to 31 ft. 11 in. (9.75 m).
- > All screeds available with high-compaction technology.

10 New-generation Screeds

- > Tamper Dual Shift for rapid tamper stroke adjustment.
- > Simplified attachment of bolt-on extensions.
- > Optimized screed heating for quicker heat-up.

MATERIAL MANAGEMENT

11 Receipt of Mix

- > PaveDock Assistant to improve communication during transfer of material.
- > PaveDock push-rollers for safe feeding with material without jolts.
- > Large material hopper with a capacity of 30,865 lbs. (14 metric tonnes) for easy material feeding.

12 Flow of Material

- > Combined control of conveyor and auger for better paving quality and reduced fuel consumption.
- > Heated auger frame prevents material sticking, and ensures perfect material flow and surface quality, specially with difficult-to-process materials.
- > PowerTunnel for an optimum head of material in front of the screed when paving variable widths without bolt-on extensions.





01 Pioneering, functional product design.
02 ErgoPlus 5 with many convenience and automatic functions.
03 Pave Assist Plus for easier repositioning on the job site.
04 Light Package Plus for optimum illumination of the screed operating area.

05 PaveDock Assistant simplifies communication during transfer of material.
06 Well-organized, ergonomic workstation.
07 Safe, convenient step onto screed.

SUPER 2100-5 X

SUPER 2100-5 X-Tier - the powerful all-rounder

With the SUPER 2100-5 X Tracked Paver, VÖGELE is taking two steps into the future at once: new operator ergonomics, more automated processes and faster setup times, together with reduced noise and exhaust emissions.

The SUPER 2100-5 X has a mighty power pack from John Deere with an output of 250 hp (187 kW) at 2,000 rpm. This engine is characterized by economical consumption and comparatively low noise.

The ErgoPlus 5 operating system makes the SUPER 2100-5 X simple and intuitive to operate. ErgoPlus 5 is characterized by a good overview, great convenience, and perfect ergonomics. The optional touch display with expanded functionalities means the operating system is fit for the future.

Numerous features automate the processes around paving, and make it even more convenient and efficient.

Paver Access Control makes the paver ready for operation, Pave Assist Plus ensures consistent paving quality, and PaveDock facilitates transfer of material to the paver. The Power Tunnel optimizes the head of mix in front of the screed, and Logistic Plus simplifies the handling of screed and auger extensions.

All the upgrades and new features make the SUPER 2100-5 X a paver that equips our customers perfectly for the future. In addition to its technical features, the paver is also forward-looking in terms of its economical consumption and low emissions.



POWERFUL DRIVE TECHNOLOGY

High output with low consumption

The drive technology of the SUPER 2100-5 X includes the powerful John Deere engine, the large cooler assembly, and the splitter gearbox flanged directly to the engine.

The powerful six-cylinder diesel engine from John Deere delivers 250 hp (187 kW) at 2,000 rpm. Fuel-saving ECO mode which delivers 238 hp (178 kW) at 1,700 rpm is adequate for many applications. This considerably reduces consumption as well as noise and exhaust emissions. The engine of the SUPER 2100-5 X meets the Stage V exhaust emissions standard.

The large cooler assembly ensures that the drive unit always achieves maximum power. With innovative air routing and a variable-speed fan, engine temperatures are always maintained within the optimum range, perfectly equipping the machine for every climate.

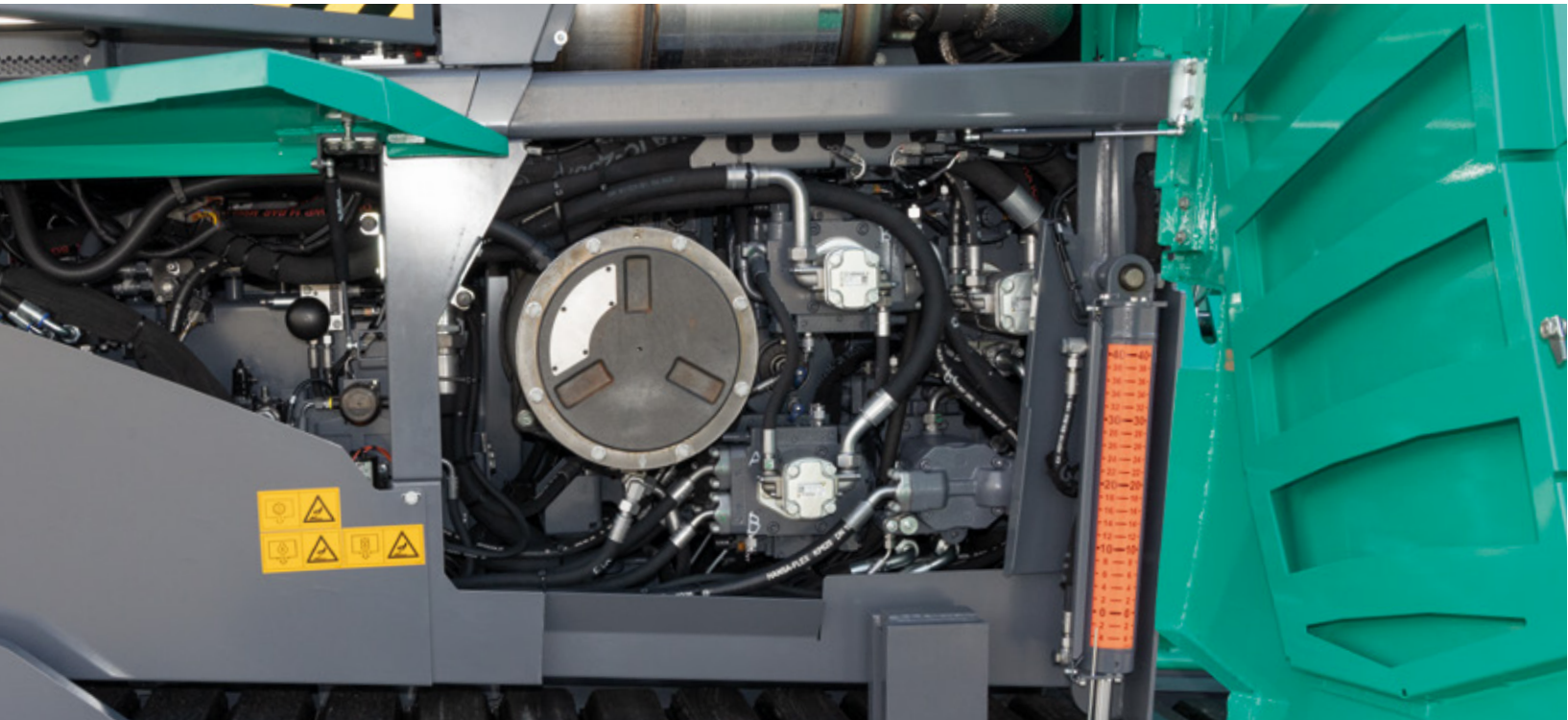
The splitter gearbox supplies all hydraulic consumers directly with hydraulic oil. The advantage is that all pumps and valves are centrally located, making them easily accessible. Even the powerful generator for screed heating is flanged directly onto the splitter gearbox, its integrated oil cooling making it completely maintenance-free.

The modern John Deere engine means that you now get full machine service from a single source - the WIRTGEN GROUP.

250 hp (187 kW) at 2,000 rpm
is the diesel engine output

ECO mode at 1,700 rpm
reduces operating costs

106 gallons (US) (400 liters)
capacity fuel tank



- = coolant cooler
- = intercooler
- = hydraulic oil cooler

VÖGELE SUSTAINABILITY

Exhaust emissions after-treatment, alternative fuels (HVO) and VÖGELE EcoPlus

Stage V engine exhaust emissions after-treatment is provided by the diesel oxidation catalyst (DOC), a diesel particulate filter (DPF), and a selective catalytic reduction (SCR) catalytic converter. The SUPER 2100-5 X is also approved for use with alternative fuels such as HVO*. VÖGELE EcoPlus also significantly reduces emissions. This package is capable of reducing consumption and CO₂ emissions by up to 25%, as well as cutting noise.

*Hydrogenated vegetable oils

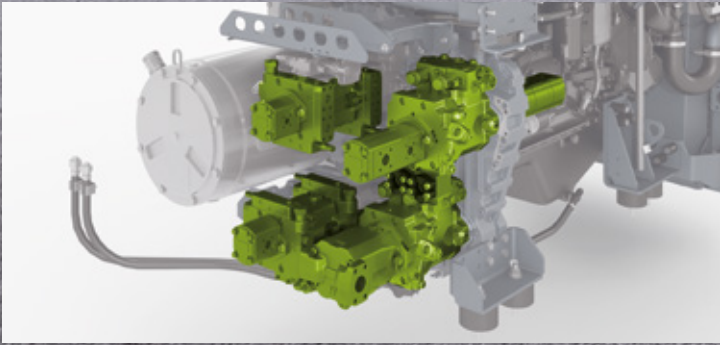
VÖGELE ECOPLUS

Lower consumption and fewer emissions

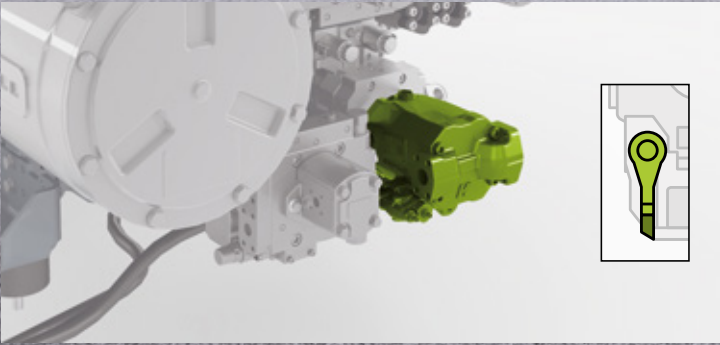


Not content with simply ensuring that our road pavers conform to the applicable emissions standards, we like to go much further. The machine concept for the “Dash 5” generation is based on environmental engineering principles. An important aspect of this is VÖGELE EcoPlus to reduce consumption and emissions. The package consists of various features which

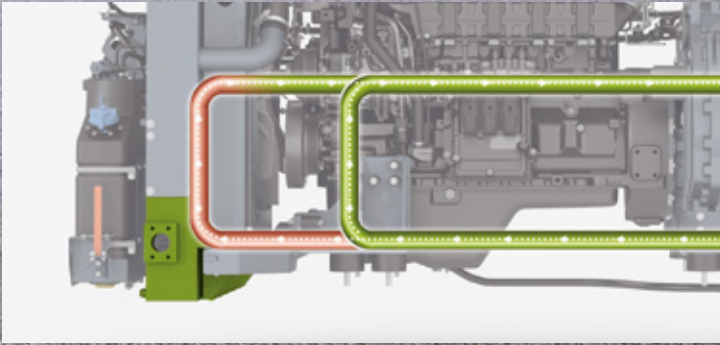
reduce machine consumption. Depending on the application and utilization of the paver, VÖGELE EcoPlus can save up to on 25% fuel. This not only means considerable financial savings for companies, but also a positive impact on the environment. That’s because every gallon of fuel saved reduces carbon dioxide (CO₂) emissions.



Splitter gearbox with hydraulic pump disengagement feature
When the paver is at a standstill, all the hydraulic pumps for “drive”, “transfer” and “compact” are switched off automatically. The result is lower fuel consumption.



Energy-optimized Tamper Drive
The tamper is driven by a variable displacement pump. This always delivers only the exact amount of oil needed for the current tamper speed. Not a drop more or less.



Controlled hydraulic oil temperature circuit
A bypass circuit gets the hydraulic oil to its optimum operating temperature very quickly, enabling rapid, fuel-saving operation of the paver.



Media temperature-managed fan control
Media temperature-managed fan control adapts fan output automatically to suit the consumer being supplied. In other words, the temperatures of hydraulic fluid, engine charge air, cooling water and the ambient air are controlled within a closed control circuit, and cooler output is adapted accordingly.

EFFICIENT TRANSMISSION OF TRACTIVE POWER

High-quality separate hydraulic drives are essential components of our drive concept. They allow our pavers to operate to a very high standard, and so extremely cost-efficiently. Since the traction drive units are directly integrated into the sprockets of the crawler tracks, engine output is translated into pave speed without any loss of power.

- > The hydraulic systems for the drive, for material handling and distribution and for the compacting systems are in independent closed circuits, and achieve the best possible efficiency as a result.
- > Long crawler tracks with a large footprint deliver maximum tractive power, ensuring a constant forward speed even when operating on difficult terrain.
- > Separate electronically-controlled drives in both crawler tracks ensure positive tracking when moving straight, and accurate cornering.

Hydraulic drives
directly in the sprockets of the crawler tracks

Consistent positive tracking
when moving straight as a result of separate electronically-controlled drives

Long crawler tracks
for maximum traction



PAVEDOCK ASSISTANT AND PAVEDOCK

For a reliable process when transferring material to the paver

PaveDock Assistant

Among other factors, a constant feed rate is essential for high-quality, even paving. PaveDock Assistant was developed specifically for that purpose. This assistance system handles communication between the paver operator and the truck operator.

The core of this communication system is formed by the signal lights mounted on the right and left of the paver's hardtop, and the associated controls on the paver operator's ErgoPlus 5 console. The signal lights have two clear signals: green for "Dock" and red for "Stop".

PaveDock Assistant

facilitates communication during transfer of material to the paver

PaveDock sprung push-rollers

guarantee reliable feeding with material, without jolts



01

- 01 Two signals which are easy to see, even from a distance: a red and a green diamond.
- 02 Controls for the signal lights on the paver operator's console.
- 03 To make it easier for the mix truck to dock, the rubber baffles to the left and right of the hopper front have reflective markings.



02



03

PaveDock

PaveDock ensures higher paving quality. The sprung push-rollers efficiently absorb jolts from mix trucks so that they are not transmitted to the paver, and onto the asphalt.

The push-rollers also oscillate, which even allows trucks to be pushed on bends.



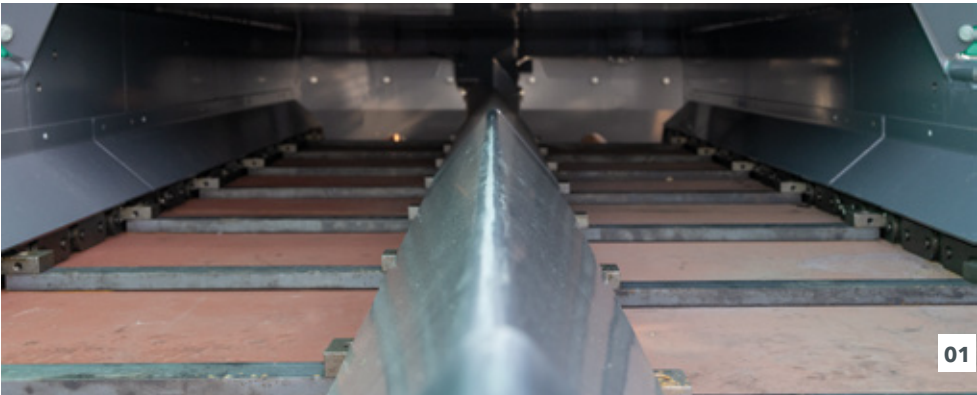
Extra-wide oscillating truck push-rollers allow convenient, jolt-free feeding of material by trucks, even on bends. The push-rollers can be adjusted fully lengthwise to adapt them to the geometry of the mix truck.

PERFECT MATERIAL MANAGEMENT FOR PERFECT PAVING QUALITY

A continuous flow of material is key to ensuring uninterrupted, high-quality paving, which is why we attach such importance to perfect material management when designing our pavers.

All our development efforts focus on simple operation and the best possible overview for the paving team. Like all VÖGELE pavers, the SUPER 2100-5 X is clean, reliable and quick to feed. Deep and wide container walls and hard-wearing container front skirts make it easy for the truck to load the material. For easier docking of the mix truck, the container's front protection skirts have reflective markings on the left and right.

The hydraulic hopper front flap ensures that the complete quantity of mix reaches the material conveying process. The large-volume receiving container has a capacity of 30,865 lbs. (14 metric tonnes). This means that even in difficult feeding situations, such as under bridges, sufficient mix is available for paving.



- 01 Proportionally controlled mix feed with permanent quantity monitoring ensures uniform, precisely fitting paving material.
- 02 Optimized blades of the spreading auger ensure perfect distribution of the mix even with large working widths.
- 03 The optional Power Tunnel is ideal for changing paving width.



The transverse material feed in front of the screed ensures an optimum supply of mix in every paving situation. Powerful individual hydraulic drives of the scraper belt and spreading auger enable high paving capacities of up to 1,200 tons (1,100 metric tonnes) per hour. The control signals of the scraper belt and distribution auger are combined so that a uniform material flow and a consistent mix feed are guaranteed. This not only avoids peak loads, but also reduces fuel consumption.

Power Tunnel
The Power Tunnel is perfect for changing widths when paving without widening. The hydraulically adjustable limiting plates automatically adjust to the screed width, and ensure optimum mix placement in front of the screed, even when the screed extensions are fully extended. This increases the paving quality in terms of evenness and pre-compaction.

VÖGELE > GOOD TO KNOW

Heated auger plough

The heated plough on the center bearing block of the spreading auger effectively prevents mix from sticking during paving, and makes an important contribution to perfect paving results. In addition, the plough's geometry distributes the mix evenly to both sides. The heated plough particularly facilitates the laying of low-temperature asphalt (LTA).



PAVE ASSIST PLUS

Automated processes

Pave Assist Plus makes life easier for site teams by allowing paving-related settings to be saved and then called up again. This assistance system also automates repositioning of the paver between two sections of the job site.

Pave Assist Plus is especially helpful if the paver needs frequent repositioning around the job site. Just press the Execute button once to raise the auger, the hydraulic hopper front and the deflectors in front of the crawler tracks to their topmost position. The screed and the tow point rams are moved into Travel position. In addition, the screed is hydraulically locked in Travel position. The conveyors are reversed briefly to stop material dropping off during travel. The paver is now ready to travel.

After repositioning, press the Execute button again to return everything to the previously stored operating position; this ensures that no settings are lost when switching between Pave and Travel modes. It also effectively prevents any damage to the paver.

All the settings are saved and can be filed in the form of a paving program. This saves an enormous amount of time, greatly enhancing both safety and consistent paving quality.



- The advantages of Pave Assist Plus:
- > Save time by making automatic settings to the paver when starting work or switching job site
 - > Simple to save and call up all paving-related parameters
 - > Consistently high quality and process reliability
 - > Paver travels rapidly and safely between sections of the job site



Pave Assist Plus likewise effectively eliminates typical damage from travel - to the auger or to the deflectors in front of the crawler tracks, for example. The saved paver and screed values can be activated as presets if required. They are easy to modify and thus adapt to suit paving conditions. Pave Assist Plus also has factory presets for paving a base course, binder course and surface course.

ERGOPLUS 5 OPERATING CONCEPT

Simple, user-friendly and ergonomic

An innovative machine with the latest technology also includes an advanced operating concept. This must be easy and intuitive to use, and at the same time ergonomic. The ErgoPlus 5 operating concept is centered on the operator. In this way, we ensure that they always have full control over the machine and the construction project.

This starts with the ergonomic workplace on the operator's platform, and extends to the intuitive and simple operation of the operator and screed console, right through to the integrated Auto Grade Plus system for automated grade and slope control.

ErgoPlus 5 supports the operator, is self-explanatory and, as it builds on the proven ErgoPlus 3, is easy to learn.



ErgoPlus 5 paver operator's console
The next evolutionary step of VÖGELE's proven operating concept

ErgoPlus 5 operator's platform
Better overview, more comfort and improved ergonomics

Auto Grade Plus and Grade Assist
Grade Assist improved system for and slope control

Grade Assist
automated grade

Compared to its predecessor, ErgoPlus 5 offers even greater ease of use and improved ergonomics. For example, the low-profile operator's control console allows for more legroom and a more comfortable seating position.

- 01 ErgoPlus 5 operator and screed control consoles**
 - > ErgoPlus 5 operator control console with lower overall height
 - > SmartWheel for steering, fine steering/steering trim via setpoint generator
 - > Configurable in two expansion stages: with and without touch display on the left side
- 02 Auto Grade Plus and Grade Assist**
 - > Automated grade and slope control for a perfect paving result
 - > Wide range of sensors enables flexible use
 - > Particularly simple and user-friendly operation
 - > Precision paving of predefined cross-sections
 - > Constant monitoring of entered installation parameters
- 03 ErgoPlus 5 operator's platform**
 - > Perfect view of all important points
 - > Ergonomic seating position thanks to individual adjustment options
 - > Fixed roof for optimum weather protection
 - > Convenient and secure access



ERGOPLUS 5 OPERATOR'S CONSOLE

Clearly arranged in line with experience from the field

The paver operator's console is extremely clear, and has been designed according to practical principles. All functions are combined into logical groups, so that the operator finds each function exactly where they would expect it to be. Even with ErgoPlus 5, the function keys can be felt and operated with gloves. A press of a button is all it takes. That is thanks to the "Touch and Work" principle. The desired function is executed directly, without further confirmation.

Storage options and a 24 V socket for charging mobile devices are also included. The operation of individual functions such as steering, fine steering, PaveDock Assistant and Pave Assist Plus has been greatly simplified, and is logical to use. The SUPER 2100-5 X is steered with an easy-to-grip SmartWheel. The fine steering is done via a potentiometer. With this, the paver can be finely controlled with extreme precision.

- 01

Propulsion and steering
All functions for moving the paver are grouped here, for example, the main travel switch, the operating mode selector, and the setpoint generator for the pave speed.
- 02

Material management and material containers
The Material Manager function group contains the controls for the hopper walls, and for the scraper belt and distribution auger. The operating elements for the material container are also located here.

- 03

Screed
All operating elements of the paving screed are combined in this function group.
- 04

Display
The high-contrast color display provides for brilliant readability even in poor lighting conditions. Vital information is shown on menu level 1. More paving settings, as well as information about the machine, can be found at the secondary levels.
- 05

ErgoPlus 5 Premium Touch
The ErgoPlus 5 operator's control console is optionally available with additional Premium Touch. Premium Touch enables an even easier overview, and operation of various functions. With Premium Touch, the machine is ideally prepared for digital road construction. The Grade Assist process automation solution and the temperature monitoring of RoadScan are already clearly presented on the large touch display, and can be conveniently operated there.



VÖGELE > GOOD TO KNOW

ErgoPlus 5 operator's console Standard

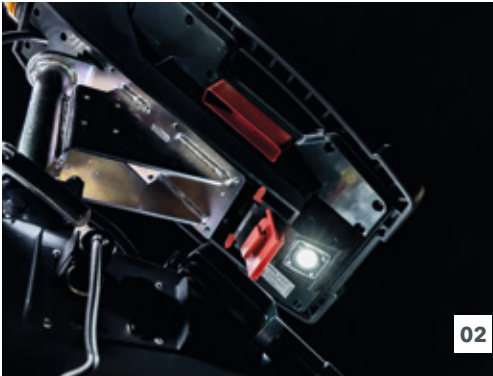
The Standard version has additional storage options instead of the touch display.



ERGOPLUS 5 SCREED CONSOLE

The screed is key to pavement quality. That means easy, positive handling of all screed functions is crucial for high-quality road construction. ErgoPlus 5 enables the screed operator to handle all the paving process perfectly, as all the functions are easy to understand and clearly arranged.

Push-buttons are provided for regularly required functions operated from the screed operator's console. The buttons are watertight and enclosed in a perceptibly raised ring, meaning they are identifiable blindfold simply by touch, even when wearing work gloves. Important paver and screed data can be called up and adjusted from the screed operator's console too.



- 01** The screed control panel can be connected during operation. With Quick Connect, no cables are needed.
- 02** The rear of the screed control panel has a powerful LED to illuminate the side shield area.

Quick Connect

No cable connection necessary; simple and process-safe connection possible during ongoing paving operation

Simpler handling

The flat design allows for easier stowage of the screed control panel



01 Display of the screed operator's console

The display of the screed operator's console allows the screed operator to control and monitor both the left and right sides of the screed. Machine-related parameters such as tamper speed or conveyor speed can be adjusted conveniently via the display panel of the screed operator's console. The clear menu structure, combined with easily understandable, self-explanatory symbols neutral in language, makes operating the display panel both simple and safe.

02 Ergonomic screed width control at two speeds

The width adjustment of the paving screed is now carried out fatigue-free by means of the easy-grip SmartWheel. This can be done at two speeds: Slow, for precise screed width control along an edge, or fast, for rapid extension or retraction of the screed.

VÖGELE > GOOD TO KNOW

Hydraulic height adjustment of the side shield

The hydraulically adjustable side plates are now operated via one remote control per side. Process-relevant functions can also be perfectly controlled via this remote control.



AUTO GRADE PLUS AND GRADE ASSIST

Systems for automated grade and slope control

Auto Grade system for automated grade and slope control

The Auto Grade system for automated grade and slope control is an in-house development of JOSEPH VÖGELE AG, and is based on years of experience in the field of leveling technology. Easy operation, precision and reliability are its hallmarks, for perfect mastery of all grade and slope control jobs.

The fully integrated system is optimally matched to the machine technology of the VÖGELE pavers with the ErgoPlus operating concept. All wiring and connections, for instance, are integrated in the tractor unit and screed, effectively eliminating any risk of damage to those components.

It goes without saying that VÖGELE offers a very large and practical selection of sensors to allow versatile use of the Auto Grade system. Whether parking lots, traffic circles or highways

need to be built or rehabilitated, VÖGELE offers the right sensor for every job site situation.

Sensors can be changed quickly and easily, as Auto Grade automatically detects which sensor is connected, simplifying the configuration process for the user.

Grade Assist (Option)

Grade Assist additionally automates the canopy and transverse profile paving. The parameters for specified distances are entered on the ErgoPlus control consoles, and can be monitored accordingly during paving. In this way, Grade Assist supports the operator in the precise paving of roads in predefined profiles. In addition, the integrated edge follower Edge Control automatically regulates the screed width along a reference.



- 01** The LED sighting crosses also fitted to the sensor provide continuous, clearly visible feedback to the screed operator, indicating whether the actual values match the settings made.
- 02** With the Grade Assist option, the parameters for roof and transverse profile paving can be preset and monitored on the screed control console and on the touch display of the operator's control console.
- 03** The two-way split display provides the screed operator with access to both sides of the screed. The symbols provide information at all times, including on the height of the tow point rams, preset and actual values, and the preset sensitivity of the grade and slope control sensors.



VÖGELE > GOOD TO KNOW

Sensors available

Slope sensor

The slope sensor allows the transverse profile to be determined exactly and then paved accurately. The measuring range is $\pm 10\%$.

Variable mechanical grade sensor

The variable mechanical grade sensor can be equipped with skis for referencing from the ground in 12 in., 3 ft. 3 in. and 6 ft. 7 in. (30 cm, 1 m and 2 m) lengths.

Single-cell sonic sensor

The single-cell sonic sensor emits a sound cone. This allows it to copy references 1:1 without

calculating an average. It can be used for referencing from the ground (Ground mode) or from a tensioned wire (Stringline mode).

Multi-cell sonic sensor

The multi-cell sonic sensor, with its four sensors, is highly versatile. By calculating an average, it can compensate for short irregularities in a reference.

Big MultiPlex Ski

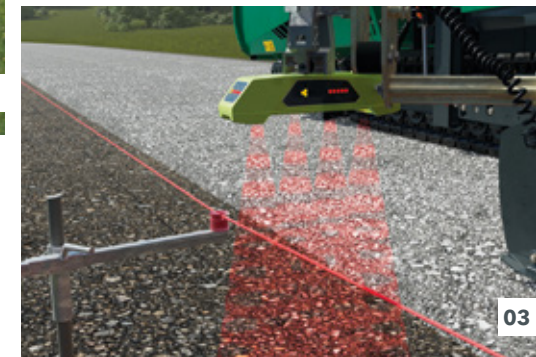
The Big MultiPlex Ski compensates for extended undulations. Three multi-cell sonic sensors can be attached to its variable 32 ft. 9 in. to 5 to 13 ft. 8 in. (10 m to 13 m) long carrier.

AUTOTRAC AUTOMATIC STEERING AND WIDTH CONTROL

AutoTrac automatic steering and width control allows direction and screed width to be controlled automatically on the basis of a physical reference. With AutoTrac, the paver operator can cope with straight sections, bends and circuits - and operation is convenient, even in poor visibility.

AutoTrac automatic steering and width control supports the paver operator by accurately adapting paving width to suit conditions. It controls the paver accurate to the centimetre using a reference track created beforehand. This means the ideal operating width of the paver can always be used. The result is an increase in process efficiency and thus in cost efficiency.

A high degree of complexity is always involved in controlling a paver manually to ensure that the paving line is accurate. Automatic steering prevents faulty areas. The paver operator can concentrate fully on monitoring the paving process and keep an eye on the job site surroundings as a whole. The functions of AutoTrac can be combined with one another.



01 Screed Width Control

The Screed Width Control function maintains a consistent paving width. If one extending unit is extended or retracted, the opposite extending unit moves with it in the same way, thus keeping the overall width of the screed the same.

02 Edge Detection

For paving edges and kerbs, the Edge Detection edge tracker follows rising and falling edges using the laser sensor on the front of the side plate. It can detect edges measuring 2 cm high or more within a 70° measuring range. As soon as Edge Detection is activated, the sensor scans the area ahead of the side plate on the selected side of the screed. The extending unit of the screed adapts paving width accurately and fully automatically to suit the line of the edge.

03 Edge Control

The Edge Control tensioned wire tracker facilitates paving along a tensioned wire. Supported by a multi-cell sonic sensor, the extending unit of the screed automatically adapts to suit the line of a tensioned wire.





ERGOPLUS 5 OPERATOR'S PLATFORM

Improved efficiency, reliability and convenience

An ergonomic workplace is of key importance to enable a paver operator to concentrate fully for long periods of time. This is why VÖGELE relies on the paver operator's platform with ErgoPlus 5 too. The ErgoPlus 5 operator's platform provides plenty of storage space, is clearly arranged, and meets stringent health and safety requirements.

Outstanding all-round visibility also increases safety. The operator can monitor everything from their workplace: material feed, material supply, and head of mix. With its intelligent design, the ErgoPlus 5 system proves that innovative technology can be controlled ergonomically, efficiently, intuitively and conveniently.

- 01 Comfortable operator's platform**
 - > The comfortable paver operator's platform gives an unobstructed view of all crucial areas on the paver, such as the material hopper, steering guide and screed.
- 02 The control console and seats can be moved to create an optimum seating position**
 - > The seats, which swing out to the sides, and the streamlined design of the operator's platform ensure maximum visibility of the auger tunnel, allowing the paver operator to keep an eye on the head of mix in front of the screed at all times.
 - > The paver operator's seat and console, as well as the screed consoles, can now be adjusted even more easily to personal needs.
- 03 Hardtop provides excellent protection**
 - > The modern hardtop made of glass fiber reinforced polymer material shelters the operator, come rain or shine.

- 04 Everything in its place**
 - > The paver operator's platform, with its streamlined design, is well organized, offering the paver operator a professional workplace. The operator's console can be protected by a shatter-proof cover to prevent vandalism damage. In addition, the optionally available tool holder keeps order and maintains safety on the screed.
- 05 Safe and comfortable access**
 - > The walkway and comfortable middle ascent on the screed ensure safe and convenient access to the operator's platform.
- 06 Perfect access to the maintenance points**
 - > The very easily accessible maintenance points on the operator's platform enable simple and convenient maintenance. The large flaps make maintenance much easier.

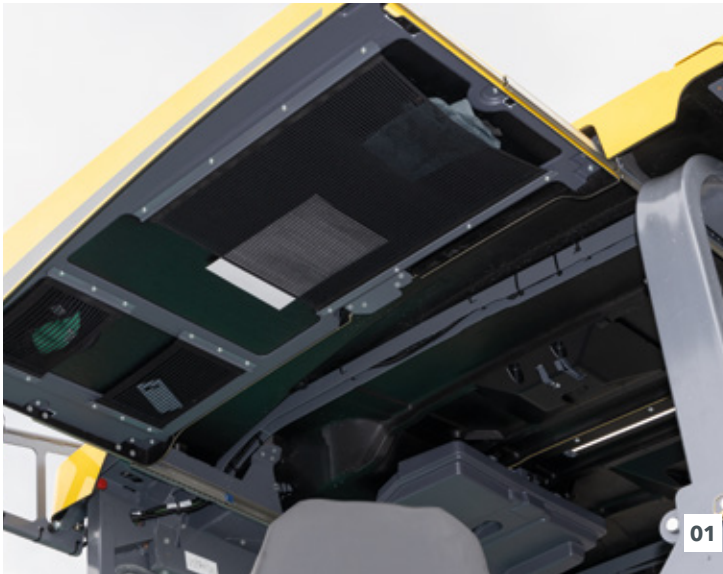
COMFORT PACKAGE WITH PAVER ACCESS CONTROL (PAC)

Comfortable and quickly ready for use

The Comfort Package makes operation of the “Dash 5” road pavers even more comfortable, safe and ergonomic than ever before. The Comfort Package includes the PAC comfort access, Ergonomic Plus operator seats, luggage nets and sound insulation in the roof as well as cup holders.

The Paver Access Control (PAC) convenience access included in the package makes daily startup and shutdown of the paver quicker, easier and safer.

All necessary functions can be controlled safely and conveniently from the ground via the Paver Access Control Unit integrated in the screed.



- 01** Luggage nets in the roof and bottle holders on the seats keep the operator's platform tidier. The insulation in the canopy reduces heat build-up and noise.
- 02** The comfortable and ergonomic Ergonomic Plus operator's seat has adjustable heating, and can be rotated $\pm 20^\circ$.

When it is dark, the first thing to do is switch on the paver's lighting. After opening the cover, the diesel engine can be started, the roof erected, and the screed lowered for a comfortable climb up.

The roof is automatically locked, and the machine control is booted. This ensures safety and saves time, as the paver operator cannot forget to lock the screed, and can start heating the screed immediately after stepping onto the platform.

Paver Access Control Unit

- 01** Ignition on and booting the machine control
- 02** Starting and stopping the diesel engine
- 03** Raising and lowering the roof, including locking mechanism
- 04** Raising and lowering the screed, including locking mechanism
- 05** Switching the lighting on/off

- Paver Access Control (PAC)**
for convenient and safe access to the paver
- Hydraulically adjustable canopy**
with integrated luggage nets and sound insulation
- Ergonomic Plus operator's seats**
with adjustable seat heating and 20° rotatable

LIGHT PACKAGE AND LIGHT PACKAGE PLUS

More comfort in the dark

Light Package

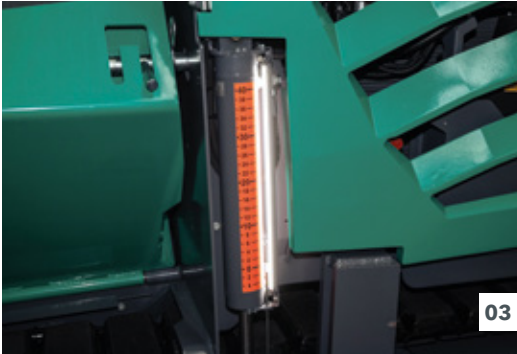
The Light Package makes working in the dark much easier and safer. Good illumination of the workplace reduces the risk of operating errors and accidents.

The Light Package includes LED lighting of the operator's platform, the two point rams, and three freely positionable LED headlights. Also included is a 230 volt Schuko socket, and the electrical connections for the light balloons.

Light Package Plus

The Light Package Plus provides even better illumination in the area of the paving screed. Powerful LEDs are integrated into a specially developed canopy extension that completely illuminates the entire working area up to a paving width of 32 ft. 9 in. (10 m).

The luminous efficacy of the LED spotlights is comparable to that of the light balloon, but they offer the major advantage that no assembly or separate transport are required. This saves time and money. In addition, the lighting integrated in the canopy is always with you; robust and protected from wind and rain.

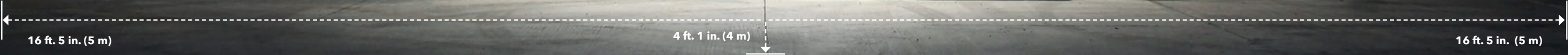


- 01 Optimum illumination of the working area
- 02 Optimum illumination of the operator's platform
- 03 Optimum illumination of the tow point rams

With the Light Package Plus, paving widths of up to 32 ft. 9 in. (10 m) and the area 4 ft. 1 in. (4 m) behind the screed are optimally illuminated.



- 01 **Integrated LED lighting**
The LED lighting integrated in the canopy and the transverse guide of the control panel optimally illuminate the operator's workplace and all maintenance points accessible from the platform; to make working in the dark more comfortable and safer.
- 02 **Illumination of the tow point rams**
The illumination of the tow point rams makes it easier to check their position in the dark.
- 03 **Optimally illuminated access**
In conjunction with the Comfort Plus Package, activating Comfort access from the screed activates the light in the canopy and optimally illuminates the access to the operator's platform.



EXTENDING SCREEDS

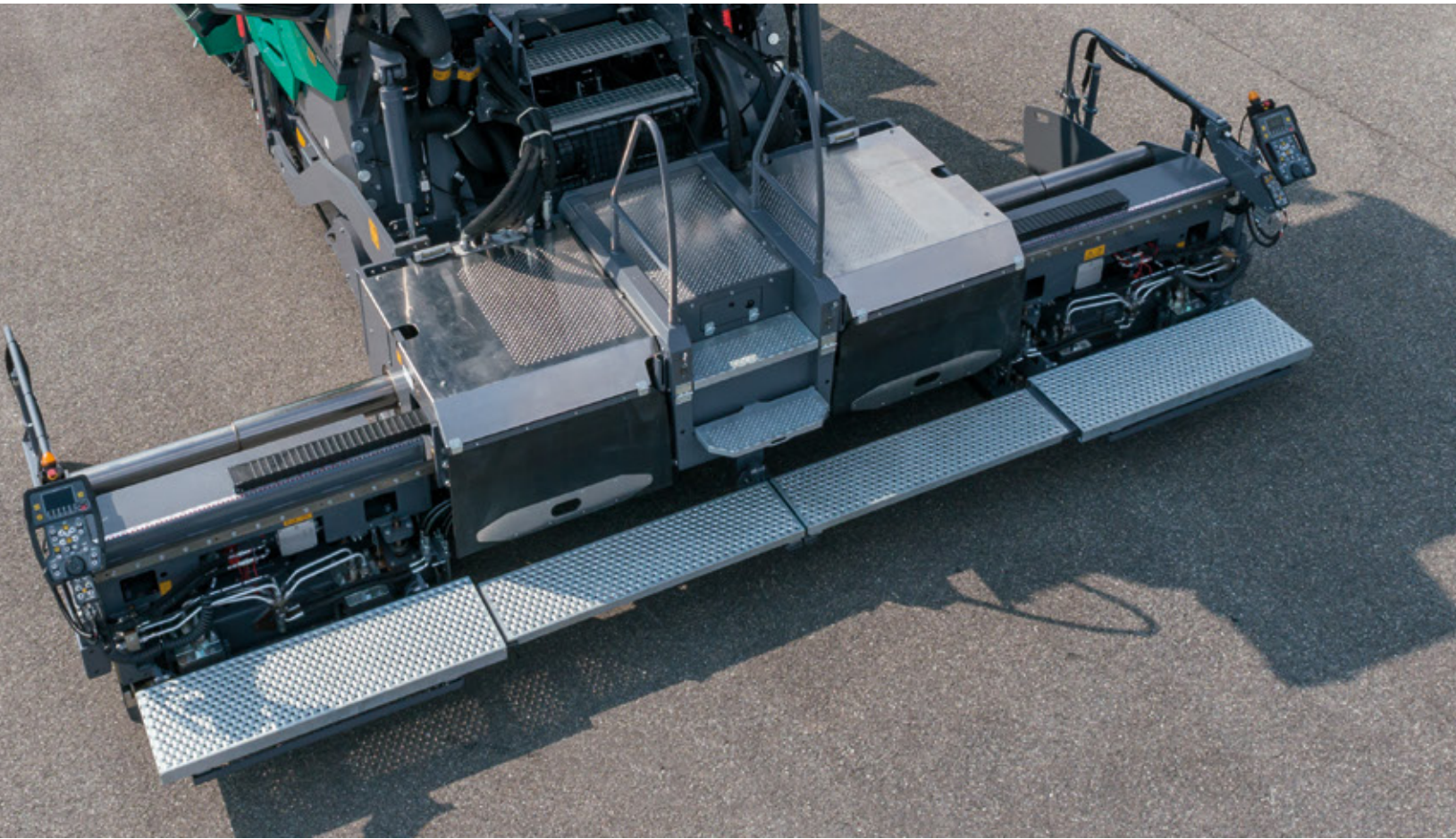
The AB 500 and AB 600 extending screeds are highly variable, so ideally suited for varying paving widths and uneven pavements. Their sturdy single-tube telescoping system permits top-precision screed width control.

Even with the screed set to its maximum width, the telescoping tubes are extended by no more than half, providing for great screed stability and zero flexing.

New heating system
for fast and homogeneous heating of the compaction units

Higher efficiency
through improved insulation of the screed heating

24 volt socket
for external light sources and charging smart devices



Dual power shift tamper

The dual power shift tamper is available for extending screeds as well as fixed-width screeds in any width configuration and compaction variant. With this hydraulic tamper stroke adjuster, the tamper stroke can be adjusted quickly and easily. Two options are available: 0.07 and 0.15 in. (2 and 4 mm) or 0.15 and 0.31 in. (4 and 8 mm) tamper stroke. The benefits are optimum paving quality based on correct adjustment to the relevant layer thickness, reduced setup times thanks to the hydraulic changeover, and an extended range of paving applications.

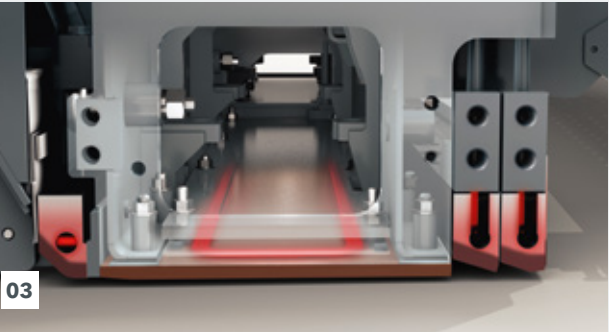
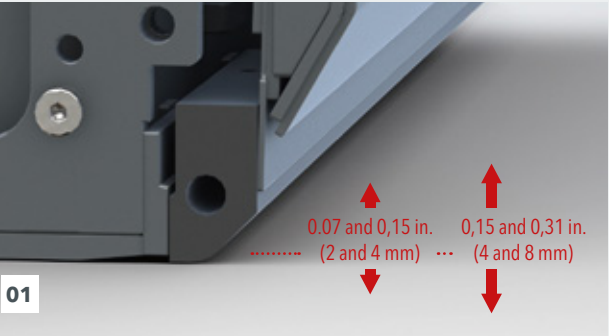
Screed width measurement

The extending screeds and the hydraulic bolt-on extensions of the rigid screeds can be equipped with a screed width measurement system. The exact position of the hydraulic extensions is recorded by means of integrated path measurement in the hydraulic cylinders. Calibration of the system is no longer necessary. The current width is displayed on both the paver operator’s and the screed control consoles.

Innovative electric screed heating

To optimize compaction and produce a smooth surface texture, all compacting elements are heated across the full screed width. The screed plates are heated as standard by large-area heating elements. They are fully insulated on top so all the heat is directed to where it is needed: the areas of contact with the mix. The tamper bar and pressure bar(s) are fitted with heating rods for quick, uniform heating from inside. In combination with the latest control technology, this means the entire heating capacity can be controlled automatically.

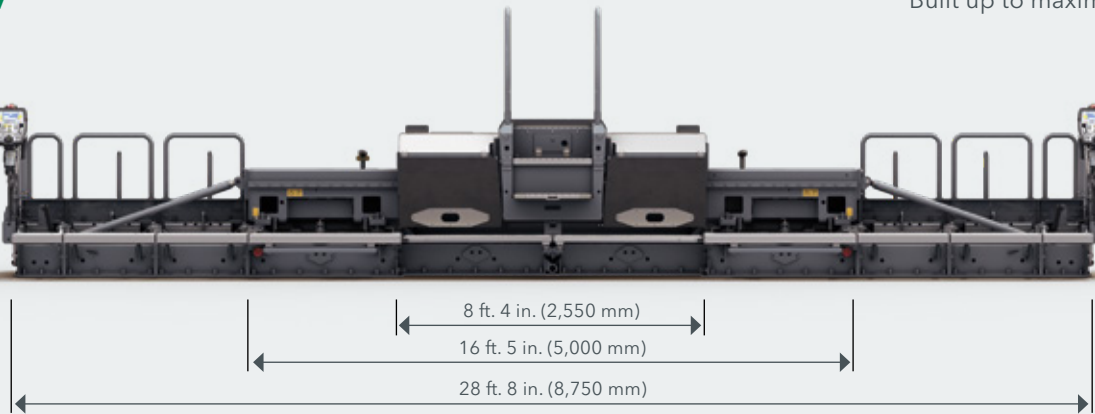
VÖGELE > GOOD TO KNOW



EXTENDING SCREEDS

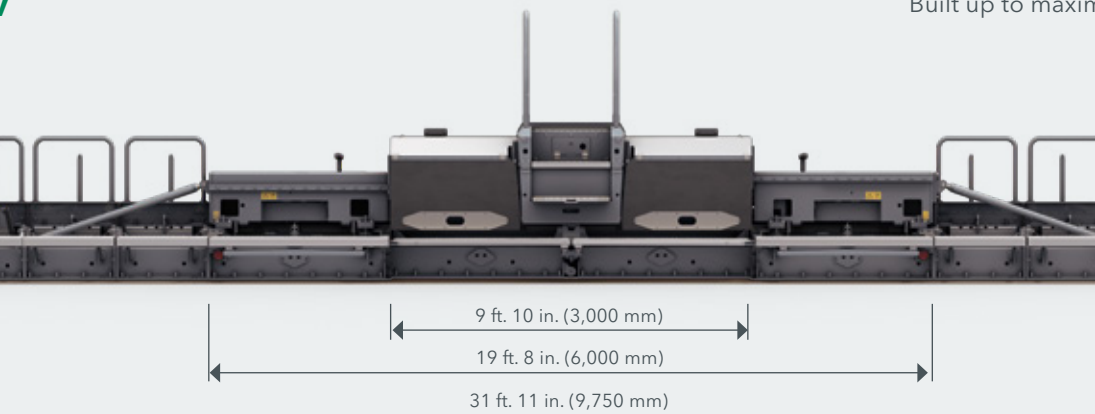
AB 500 TV

Built up to maximum paving width



AB 600 TV

Built up to maximum paving width



- Paving widths**
- > Infinitely variable range from 8 ft. 4 in. to 16 ft. 5 in. (2.55 m to 5 m)
 - > Larger widths if bolt-on extensions up to a maximum of 28 ft. 8 in. (8.75 m) are added

- Compacting systems**
- > AB 500 TV with tamper and vibrators
 - > AB 500 TP1 with tamper and 1 pressure bar
 - > AB 500 TP2 with tamper and 2 pressure bars
 - > AB 500 TP2 Plus with tamper and 2 pressure bars for maximum precompaction

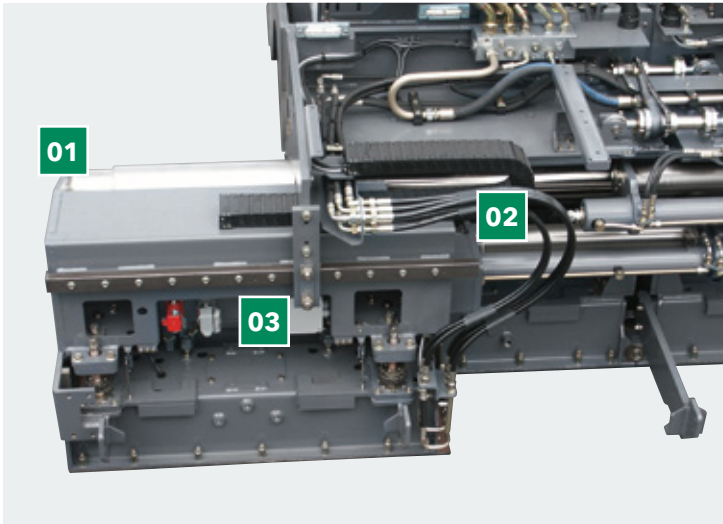


- Paving widths**
- > Infinitely variable range from 9 ft. 10 in. to 19 ft. 8 in. (3 m to 6 m)
 - > Larger widths if bolt-on extensions up to a maximum of 31 ft. 11 in. (9.75 m) are added

- Compacting systems**
- > AB 600 TV with tamper and vibrators
 - > AB 600 TP1 with tamper and 1 pressure bar
 - > AB 600 TP2 with tamper and 2 pressure bars
 - > AB 600 TP2 Plus with tamper and 2 pressure bars for maximum precompaction



- Logistic Plus: Better logistics - shorter setup times**
- With Logistic Plus, all add-on parts of the spreading auger and screed plate, including accessories and fastening material, can be transported safely and tidily. Logistic Plus improves the logistics as well as the setup time of the machine, boosting economic efficiency.
- > Shorter setup times when attaching bolt-on extensions
 - > Process-safe and fast attachment of bolt-on extensions thanks to predefined positioning
 - > No dismantling of the covers on bolt-on extensions
 - > Higher paving quality because fewer sources of error



VÖGELE Single-tube telescoping system

The hydraulic extensions are adjusted in all VÖGELE extending screeds with a single-tube telescoping guide. The three-part, large-diameter telescoping tube (6 in./7 in./8 in.; 150 mm/ 170 mm/190 mm diameter) is optimally stabilized even at maximum extension, as even then it is still half clamped. Thanks to the 3-point suspension of the screed's extending units, torsional forces exerted on the units by pressure of the mix cannot affect the screed's telescopic guidance system. Forces are absorbed at the telescoping tube's (1) outer point of attachment to the extending unit, by a fixed guide tube (2), and a sliding restraint system (3). Thanks to this design, the screed's extending units move in and out smoothly; nothing can jam or get stuck.

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Telematics solutions

Construction machines with leading technology and perfected telematics solutions work hand-in-hand in the WIRTGEN GROUP. The Operations Center* - the platform for digital solutions for process, machine and service optimization - allows you not only to simplify maintenance planning for your machines but also to increase your productivity and cost-effectiveness.

> www.wirtgen-group.com/telematics

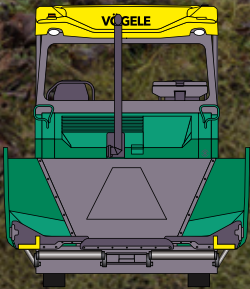
*John Deere Operations Center™ (formerly WITOS) is currently not available in all countries. Please consult your responsible branch or dealer if you have any questions in this area.

ALL THE FACTS AT A GLANCE

SUPER 2100-5 X Tracked Paver



TECHNICAL DATA



SUPER 2100-5 X

- > Maximum paving width: 31 ft. 11 in. (9.75 m)
- > Maximum laydown rate: 1,200 tons/h (1,100 tonnes/h)
- > Layer thickness: max. up to 12 in. (30 cm)
- > Transport width: 8 ft 4 in (2.55 m)



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For more information scan the code.

► www.wirtgen-group.com/america

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