

Highway Class

SUPER 2100-3i

TRACKED PAVER



Maximum Paving Width 42 ft. 8 in. (13 m)

Maximum Laydown Rate 1,200 tons/h (1,100 tonnes/h)

Transport Width 8 ft. 4 in. (2.55 m)

 www.voegele.info



Powerful, Economical, Quiet



The SUPER 2100-3i is the most powerful paver in the "Dash 3" generation from VÖGELE. This cutting-edge machine features a future-oriented design, more comfort and convenience, as well as high performance with minimum consumption.

When developing the "Dash 3" paver generation, the VÖGELE engineers' focus was above all on eco-friendly, economical and ergonomic aspects. The VÖGELE EcoPlus package, for instance, significantly reduces fuel consumption and noise levels.

The popular ErgoPlus 3 operating system, too, has been provided with a number of additional ergonomic and functional features. The paver operator's console now comes with a large color display ensuring brilliant readability even in poor lighting conditions.

New VÖGELE developments always arise from operational requirements. With AutoSet Plus, we have enhanced the efficiency, convenience and quality of key job site processes. Both the continuation of work after interruptions to paving and moves of the paver on the job site are greatly facilitated by the AutoSet Plus function.

PaveDock Assistant and PaveDock push-rollers make a perfect combination, ensuring maximum process safety when transferring material.

All of these features make this Highway Class machine a true SUPER paver.

The Highlights of the SUPER 2100-3i



Tracked Highway Class paver with a large range of applications for paving widths up to 42 ft. 8 in. (13 m)

Powerful and economical drive concept, even when operating at full load in any climate zone

The VÖGELE EcoPlus low-emissions package significantly reduces fuel consumption and noise levels

Optimum feeding with mix thanks to the large material hopper, PaveDock sprung push-rollers and PaveDock Assistant communication system

ErgoPlus 3 operating system with numerous convenient and automatic functions

All screeds can be used with high compaction technology

Efficiency, Performance, and Low Fuel Consumption



The driving force behind this Highway Class paver is its powerful, six-cylinder diesel engine rated at 250 hp (186 kW).

Intelligent engine management with ECO mode and VÖGELE EcoPlus low-emissions package keep fuel consumption and noise levels low.

Minimum input – maximum output: all drive components, including the three-phase generator, are supplied from the central splitter gearbox and operate at maximum efficiency.

High-traction crawler tracks efficiently convert drive power into forward motion.

State-of-the-Art Drive Technology

Three main components define the power unit of a SUPER 2100-3i: its modern, liquid-cooled diesel engine, a splitter gearbox flanged directly to the engine and a large cooler assembly.

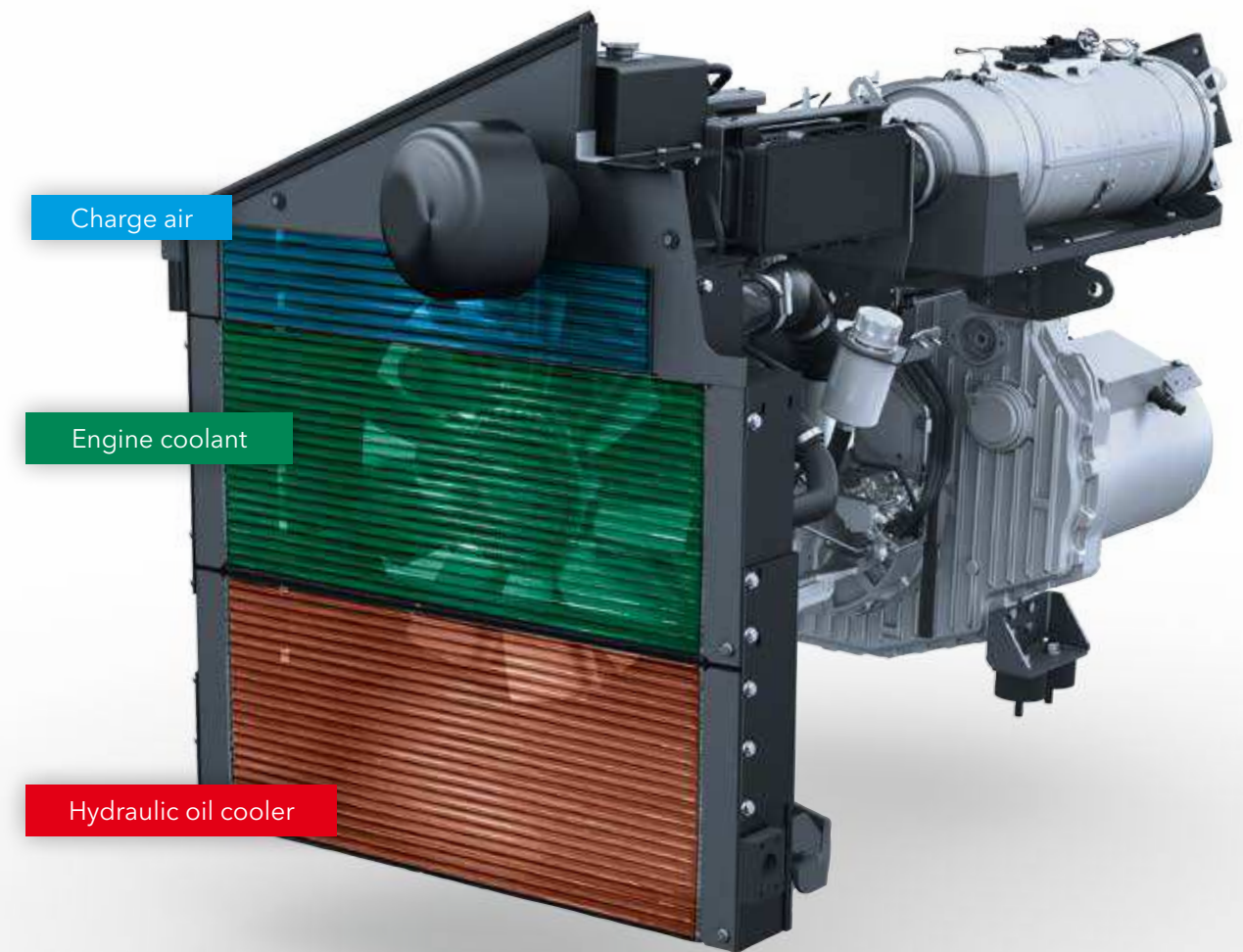
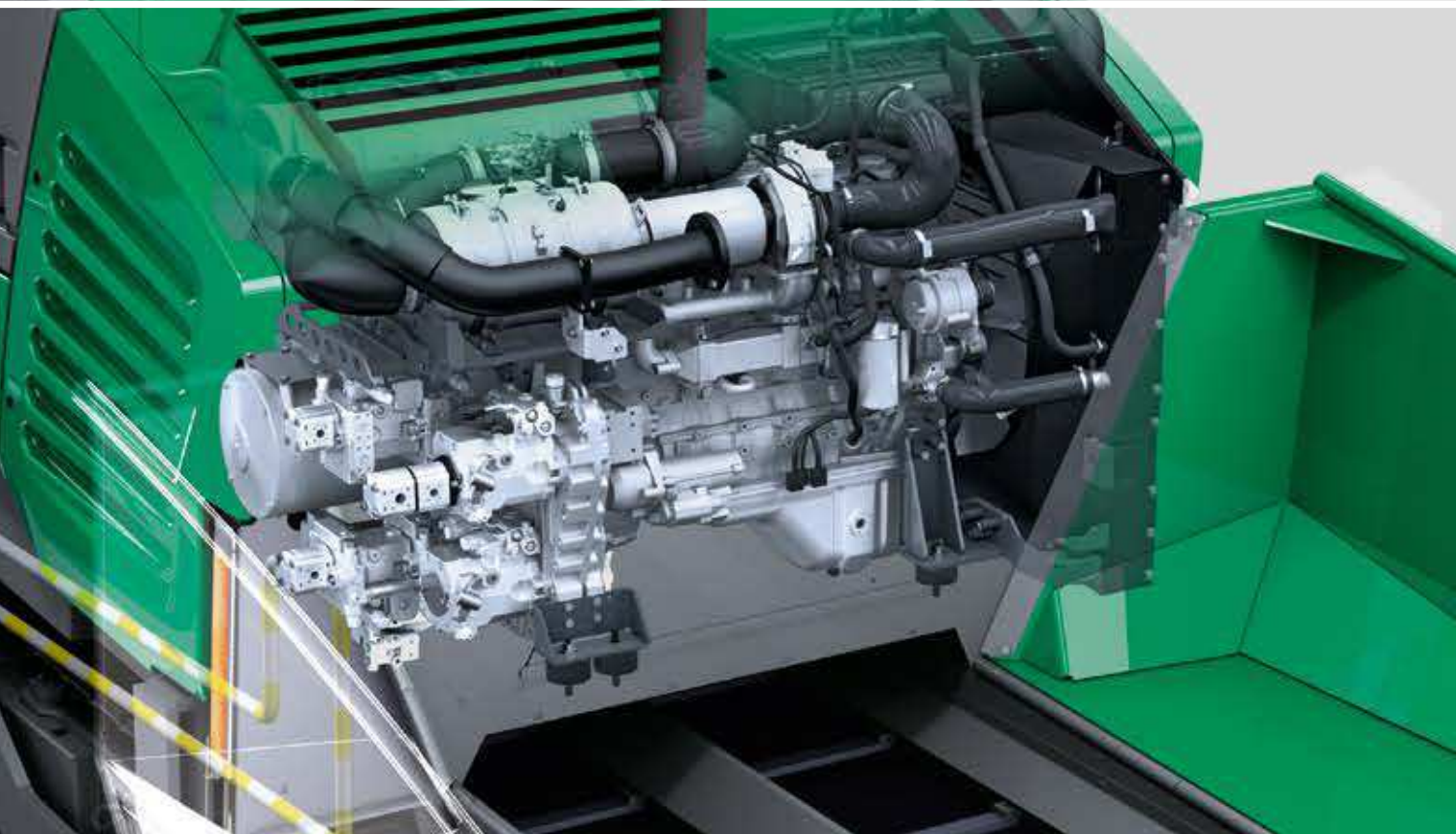
The driving force in this power pack from VÖGELE is its Cummins diesel engine of type QSB6.7-C250. This six-cylinder engine delivers 250 hp (186 kW) at 2,000 rpm. Yet the fuel-saving ECO mode is sufficient for many applications. And even then, the SUPER 2100-3i still has a full 235 hp (175 kW) at its disposal. Moreover, the machine generates even less noise when running at just 1,700 rpm.

A large cooler assembly ensures that the power unit always delivers its full output. With innovative air routing and a variable-speed fan, temperatures

are continually maintained within the optimum range, significantly extending the service life of both the diesel engine and the hydraulic oil. A further advantage is that the machine can operate without difficulty in all climate regions worldwide.

All hydraulic elements are supplied with hydraulic oil directly from the splitter gearbox, the advantage being that all pumps and valves are combined in one spot that is easily accessible for maintenance work.

Even the powerful generator for screed heating is flanged directly onto the splitter gearbox. Its integrated oil cooling system makes it completely maintenance-free and very quiet.



The large cooler assembly is made up of three parts. It ensures that engine coolant, charge air and hydraulic oil are maintained at the optimum temperature.

» **Machines with the suffix "i"** in their product designation are not only economical, but also extremely clean.

The "i" stands for "intelligent emission control" and is found in the type names of all machines from the WIRTGEN GROUP equipped with the latest engine technology. Thanks to the sophisticated exhaust gas after-treatment, the engine of the SUPER 2100-3i complies with the strict EPA Tier 4f and CARB standards.

» **Powerful yet** economical Cummins 6-cylinder diesel engine with ECO mode.

» **ECO mode for paver operation** at 1,700 rpm is perfectly adequate for numerous applications. It cuts operating costs and allows superquiet operation.

» **A powerful, oil-cooled generator** with direct drive ensures rapid, uniform heating of the screed. In the "Dash 3" generation, the generator is directly driven by the splitter gearbox. The drive system is therefore maintenance-free.

VÖGELE EcoPlus Low-Emissions Package

The **philosophy** behind the drive concept of the "Dash 3" generation was "lower consumption – lower emissions – lower costs". In this respect, the innovative VÖGELE EcoPlus low-emissions

package includes a whole series of measures to significantly reduce fuel consumption and noise levels.



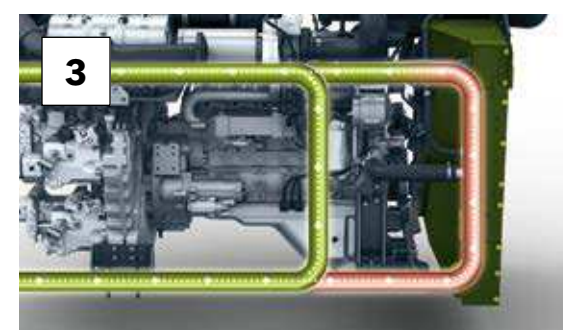
Splitter gearbox with ability to disengage hydraulic pumps

When the paver is stationary, e.g. during longer waits, all the hydraulic pumps needed for "traction", "conveyors and augers" and "compaction" are automatically disengaged. This function cuts fuel consumption considerably. Reducing the trailing load also makes it significantly easier to start the paver at low ambient temperatures.



Energy-optimized tamper drive

The tamper is driven by a variable-displacement pump which always delivers exactly the amount of oil needed for the current tamper speed and not a drop more or less.



Controlled hydraulic oil temperature circuit

A bypass circuit allows the hydraulic oil to reach its optimum operating temperature very quickly. This in turn permits rapid, fuel-saving operation of the paver. The hydraulic oil is not led through the cooler assembly before its temperature has exceeded the optimum level of 122 – 158 °F (50 – 70 °C).



Variable-speed fan

The variable-speed fan automatically adapts to the engine load and the ambient temperature. The fan is driven via a viscous coupling. This type of fan drive, in contrast to a hydraulic drive, stands out through considerably greater energy efficiency and much lower noise levels.

Efficient Transmission of Tractive Power

High-quality separate hydraulic drives are essential components of the VÖGELE drive concept. They allow our pavers to operate outstandingly and therefore extremely cost-efficiently.

Since the traction drive units are directly integrated into the drive wheels of the crawler tracks, engine output is translated into paving speed without any loss of power.



» **The hydraulic systems** for the traction drive, conveyors and augers as well as the compacting systems all operate in separate closed loops for maximum efficiency.

» **Long crawler tracks** with large footprints provide for maximum tractive effort, allowing the paver to progress well at a constant speed even when operating on difficult terrain.

» **Positive tracking** when moving straight and accurate cornering due to separate drive and electronic control provided for each crawler track.

» **The sturdy deflectors in front of the crawler tracks** reliably clear any spilled mix out of the way. With the AutoSet Plus option, the deflectors in front of the crawler tracks can even be raised and lowered hydraulically.



Perfect Paving Quality Due to Perfect Material Management



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

All our development efforts focus on simple operation and the best possible overview for the paving team.

VÖGELE's PaveDock Assistant is an innovative solution, standardizing and simplifying communication between the paver operator and driver of the feed vehicle.

Extra Large Material Hopper and Easy Material Feed

As with all VÖGELE pavers, supplying the SUPER 2100-3i with material is a clean, safe and swift process.

Thanks to a hydraulically operated hopper apron (option), the mix inside the material hopper is directed right onto the conveyors and the entire material properly conveyed in front of the screed.

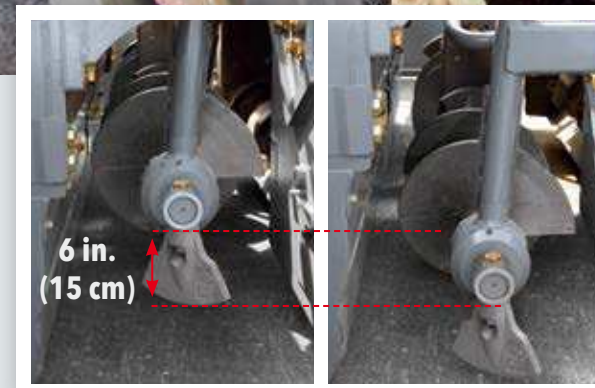


- » **The large material hopper** holding 30,865 lbs. (14 tonnes) is amply dimensioned so that a sufficient quantity of material is stored at all times. There is no problem tiding over difficult situations such as paving under bridges, for instance.
- » **Easy feeding with material** thanks to low material hopper, wide hopper wings and sturdy rubber baffles fitted to the hopper apron.
- » **Especially large oscillating push-rollers** for convenient and shock-free docking of feed vehicles even in curves.
- » **The oscillating push-rollers** can be displaced forwards by 3 in. or 6 in. (75 or 150 mm) to cater to the most diverse feed vehicles.

Precise Spreading of Material Across the Full Paving Width

The augers of the SUPER 2100-3i are hydraulically infinitely variable in height up to 6 in. (15 cm), even while paving.

This provides for quick and easy adaptation to the desired layer thickness across the full paving width.

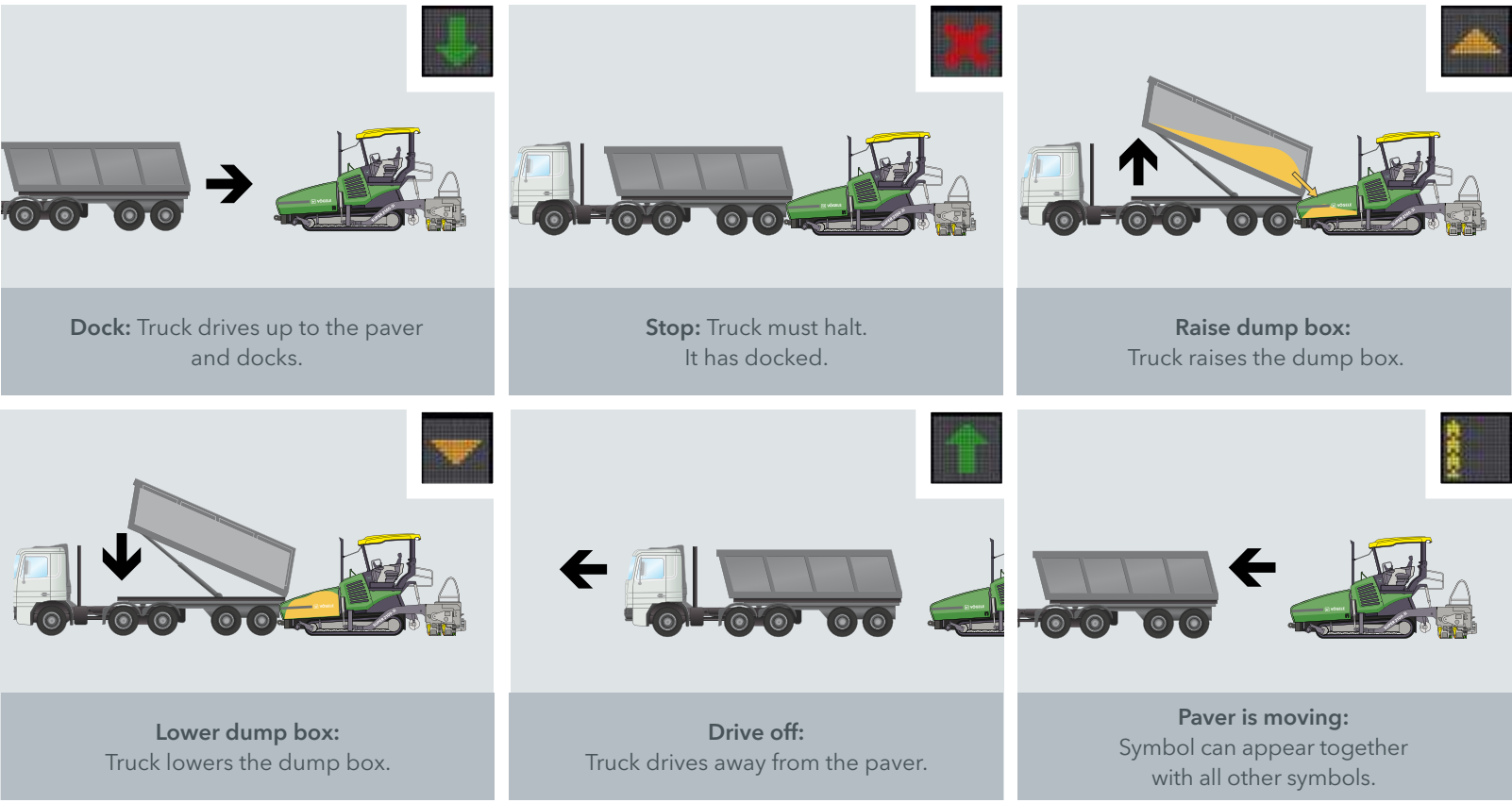


The height of the augers complete with bearing boxes and limiting plates for the auger tunnel can be hydraulically adjusted by up to 6 in. (15 cm) across the full paving width. This optimizes the head of mix in front of the screed, even when paving thin layers or when layer thickness varies.

- » **Powerful, separate hydraulic drives** installed for conveyors and augers, thus permitting high laydown rates up to 1,200 tons (1,100 tonnes) per hour.
- » **Large auger flights (diameter 19 in./480 mm)** provide for an optimal head of mix in front of the screed and prevent segregation, even when paving across large widths.
- » **Hydraulic adjustment of the augers** in height, complete with bearing boxes and limiting plates for the auger tunnel, allows the paver to be moved on the job site without a need for conversion, a benefit that saves time and money.

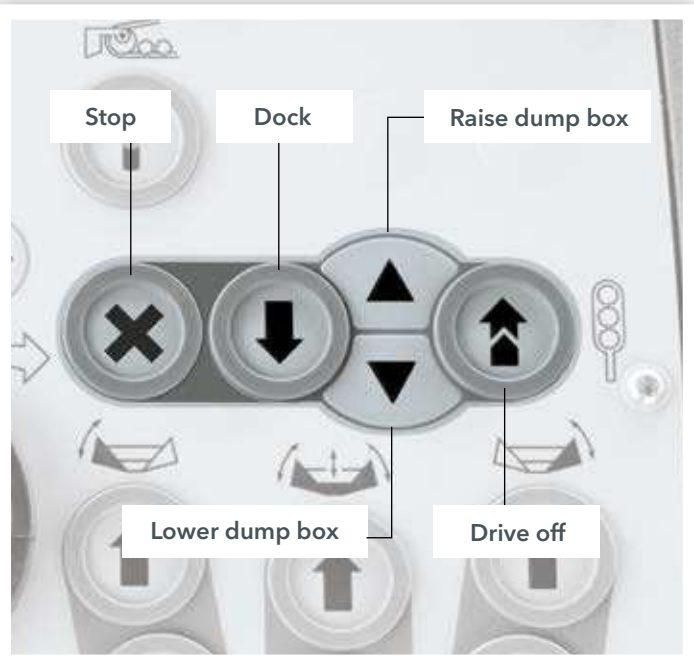
PaveDock Assistant: The Communication System

PaveDock Dampens Impacts Effectively



PaveDock Assistant is the communication system between the paver operator and the driver of the feed vehicle. It allows particularly fast and reliable transfer of material to the paver. Signal lights on the paver and the associated controls on the paver operator's ErgoPlus 3 console are key components.

The paver has two sets of signal lights, mounted on the left and right of the hardtop. With these lights, the paver operator can give the driver of the feed vehicle unmistakable signals, indicating what needs to be done (e.g. reverse, stop, dump material). Having two lights, each in an elevated position, ensures that all signals are clearly visible to the feed vehicle driver from all angles of approach.



As an alternative to the oscillating push-rollers, VÖGELE also supplies PaveDock sprung push-rollers. These absorb jolts by the feed vehicle even more effectively and reliably, thus ensuring that they are not transmitted to the finished pavement.

Together with the PaveDock Assistant, the sprung push-rollers maximize process safety during transfer of the material: a sensor installed in the sprung push-rollers indicates whenever a feed vehicle has docked onto the paver. The signal lights display the stop signal automatically and directly. The feed vehicle driver can thus react immediately.

Automatic Processes with AutoSet Plus

With **AutoSet Plus**, we have enhanced the efficiency, convenience and quality of key job site processes. AutoSet Plus has two handy automatic functions.

The Repositioning and Transport function greatly facilitates the continuation of work when moving the paver on the job site from one work section to another, or after the paver has been transported.

Simply pushing the "Execute" button quickly and reliably readies the machine for travel on the job site, or for transport. Pushing the button again returns it to the previously stored working position.

The Paving Programs function allows the operating personnel to save the configured machine parameters and store these as a paving program in the menu. This program can then be called up and used whenever needed.

The two comfort functions of AutoSet Plus automate routine tasks, allowing work processes to be carried out more quickly and with greater control. This in turn means that construction projects can be completed faster and more reliably.



1 // AutoSet Plus: Repositioning function

Fast and safe repositioning of the paver on the job site.

No settings are lost between paving and repositioning.

Also prevents any damage to the augers and deflectors in front of the crawler tracks.

2 // AutoSet Plus: Paving Programs function

Automated configuration of the paver.

Stores all paving-relevant parameters.

Selection of stored paving programs.

Reproducible quality.



AutoSet Plus Repositioning Function

AutoSet Plus is especially helpful when the machine frequently has to be moved on the job site.

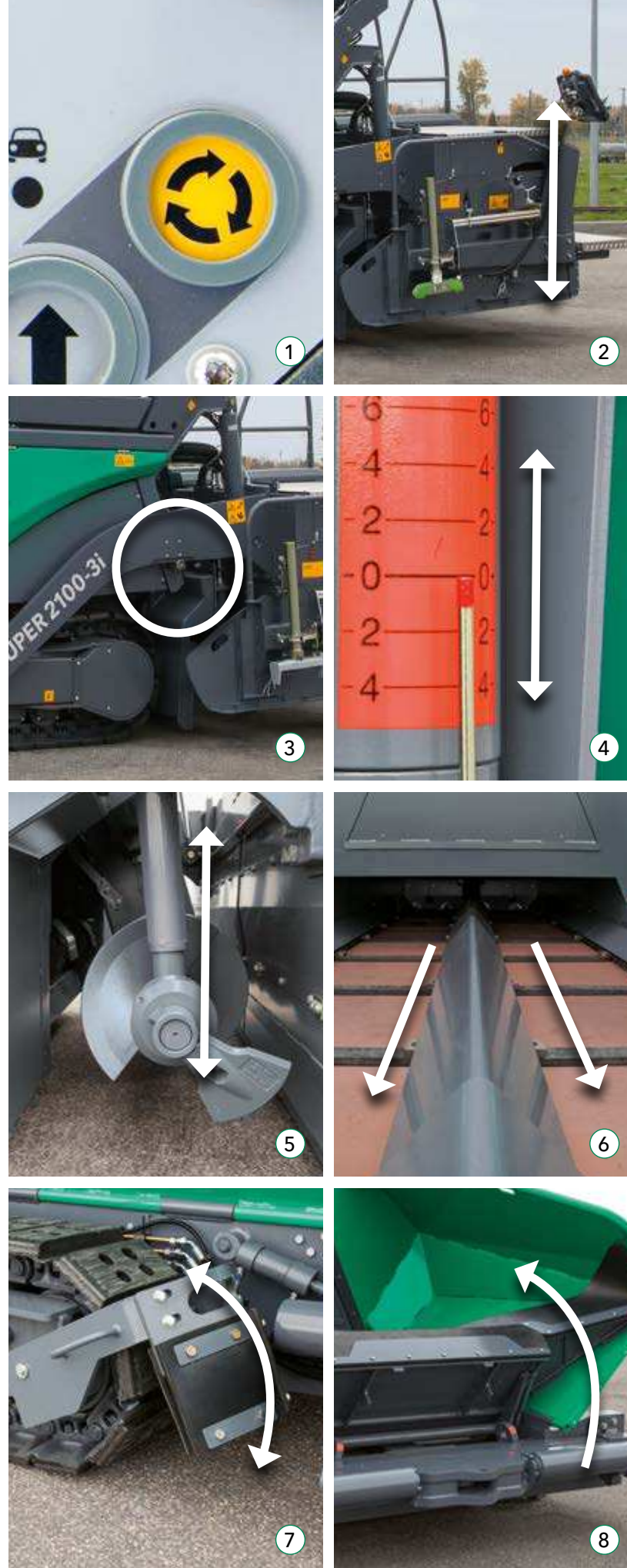
Simply pushing the "Execute" button raises the augers, the hydraulically operated hopper apron and the deflectors in front of the crawler tracks to the uppermost positions. The screed and the screed tow point cylinders are brought into transport position. In addition, the screed is locked hydraulically.

The conveyors are temporarily reversed, preventing material from falling to the ground when the paver travels to the next work section on site.

Once the paver has been repositioned, pushing the "Execute" button again returns all systems to the previously stored working positions.

This ensures that no settings are lost when changing from paving to repositioning or transport. It also effectively prevents any damage to the machine.

1. The **AutoSet Plus Repositioning function** is activated just by pushing the "Execute" button.
2. **Raise / lower** screed.
3. **Lock / unlock** screed.
4. **Screed tow point cylinders** in transport position / at last set value.
5. **Raise / lower** augers.
6. **Conveyor movement** reversible for a short time.
7. **Raise / lower** deflectors in front of the crawler tracks.
8. **Raise** hopper apron.



AutoSet Plus Paving Programs



The **automatic Paving Programs function** allows the operating personnel to store their own paving programs. All key parameters for paving a specific layer (example: base course of asphaltic concrete, 7 in./18 cm thick) can thus be saved.

On the display screen of his console, the paver operator saves the values set for the compacting systems (tamper and vibration speeds, pressure for the pressure bar(s)), height of the augers, position of the tow point cylinders, pressure for Screed Assist and the paving speed in his program.

He also enters the amount of crown and the screed temperature. The program is completed with additional information on the material being used, the layer thickness and the paving width.

The stored paving programs can subsequently be selected and used at any time via the menu. In the event of a repeat situation, this ensures that work is carried out with exactly the same settings while maintaining a consistent quality.

The ErgoPlus 3 Operating System

Even the very best machine with the most advanced technology can only really show its strengths if it can be operated easily and as intuitively as possible. At the same time, it should offer an ergonomic and safe working environment for the operating team. Therefore, the ErgoPlus 3 operating system focuses on the operator. With VÖGELE pavers, the operator consequently retains full control over the machine and construction project.

On the following pages, example illustrations will provide you with more detailed information on the extensive functions of the ErgoPlus 3 operating system. ErgoPlus 3 encompasses the operator's stand, the paver operator's console, the screed consoles and Niveltronic Plus, the System for Automatic Grade and Slope Control.



The Paver Operator's ErgoPlus 3 Console

“Full Control for the Machine Operator”

The Paver Operator's ErgoPlus 3 Console

Reversing conveyor movement

In order to avoid material dropping from the conveyors during a move of the paver on the job site, conveyor movement can be reversed at the push of a button. Reverse movement, transferring material from the rear of the conveyor tunnel back inside, takes place for a short time only and stops automatically.

No-Load function

The No-Load function is provided for the warm-up or cleaning of conveyors, augers and tamper.

AutoSet Plus repositioning function (option)

With the AutoSet Plus repositioning function, the paver is quickly and safely prepared for a move on the job site at the push of a button. After the move, all paver components are reset to their previous working positions, simply by pushing the button again. This ensures that no settings are lost when changing between "Paving" and "Job Site" modes. AutoSet Plus also effectively prevents damage during transport.

Choice of operating modes for the paver

On the ErgoPlus 3 console, 4 different operating modes for the paver are available to select from. By pressing the arrow buttons, up or down, the operator changes modes in the following order: "Neutral", "Job Site Mode", "Positioning Mode" and "Paving Mode". An LED indicates the mode selected. When leaving "Paving Mode", a smart memory feature stores the last settings for paver functions so that, when resuming work after a move of the paver on site, these settings are retrieved automatically.

Safe operation during the night

Glarefree backlighting comes on automatically as darkness sets in so that the paver operator can also work safely on night-time jobs.

The paver operator's ErgoPlus 3 console has been designed according to practice-related principles. All controls are clearly arranged. Paver functions are clustered in logical groups so that operators find their controls just where they would expect them to be.

On the ErgoPlus 3 console, all push-buttons are easily identifiable by touch even when wearing work gloves. Once a button is pressed, off you go. An advantage due to the "Touch and Work" principle. This means that a function is executed directly - without a need to confirm.



- Module 1: Conveyors and Augers, Traction
- Module 2: Screed
- Module 3: Material Hopper and Steering
- Module 4: Display screen for monitoring and adjustment of basic settings

Display screen of the paver operator's console

The redesigned color display screen has a high-contrast user interface ensuring brilliant readability even in poor lighting conditions. Vital information is shown on menu level 1, such as the positions of the screed tow point cylinders or the material level in the conveyor tunnel. Further paver functions such as speeds for tamper and vibration or feed rates for the augers can easily be set up via the display screen, too. And the screen gives access to machine-related information such as fuel consumption or service hours.

PaveDock Assistant (option)

With the PaveDock Assistant signal lights, the paver operator can give the driver of the feed vehicle unmistakable signals, indicating what needs to be done (e.g. reverse, stop, dump material). The lights are conveniently activated directly from the paver operator's ErgoPlus 3 console.

Choice of engine speed ranges

For the engine, there is a choice of 3 modes to select from: MIN, ECO and MAX. To switch modes for engine rpm, all the operator needs to do is press the arrow buttons, up or down. In ECO Mode, the engine delivers sufficient power for a great number of paving applications. Operating in ECO Mode reduces noise emission and fuel consumption considerably.

Screed Assist (option)

This button switches Screed Assist on (LED lights up) or off. The Screed Assist pressure and balance can be set via the display screen. Screed Assist is active only when the screed is floating.

The ErgoPlus 3 Screed Console

The screed is crucial for pavement quality. Therefore, easy and positive handling of all screed functions is of utmost importance for high-quality road construction.

With ErgoPlus 3, the screed operator has the process of paving at his fingertips. All functions are easily comprehensible and all controls are clearly arranged.

The screed console

The screed console is designed in keeping with the conditions prevailing on the job site. Push-buttons are provided for the frequently used functions operated from the screed console. These are watertight and enclosed in palpably raised rings, so that 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 console, too.



The display screen of the screed console

The display screen of the screed console allows the screed operator to control and monitor both the left and the right side of the screed. Machine-related parameters such as vibration speed or conveyor speed can be adjusted conveniently via the screed console's display screen. The clear menu structure, combined with easily understandable, universal, language-neutral symbols, makes use of the screen both simple and safe.



Crown adjustment at the press of a button

The crown can be conveniently adjusted at the press of a button on the screed operator's console. When pressing the "plus" or "minus" keys, the set crown value is shown on the display screen.



Ergonomic screed width control

The screed width can be effortlessly adjusted by means of the handy SmartWheel. This is done in two speeds: slow, for precisely control e.g. along an edge, or fast, for rapid extension or retraction of the screed.



Optimum visibility even in darkness

The screed console is specially designed for night-time operation. To prevent operator errors, the buttons are backlit as soon as dusk falls or in darkness. What's more, the downward-angled high-power LED lighting gives the operator a perfect view of all processes associated with the end gate.



VÖGELE Niveltronic Plus

Niveltronic Plus, the System for Automatic Grade and Slope Control, is an in-house development by VÖGELE based on many years of experience in grade and slope control technology. Easy operation, precision and reliability are its hallmarks, ensuring perfect mastery of all grade and slope control jobs.

This fully integrated system is optimally adapted to the machine technology of the SUPER pavers. All wiring and connections, for instance, are integrated into the tractor and screed, effectively eliminating all risk of damage to these components.

VÖGELE naturally offers a particularly large and practical selection of sensors permitting versatile use of the Niveltronic Plus system. Whether car parks, roundabouts, or highways, etc., need to be built or rehabilitated, VÖGELE offers the right sensor for every job site situation.

Sensors can be changed quickly and easily, for Niveltronic Plus automatically detects which sensor is connected, thus simplifying the configuration process for the user.

Left-hand side of screed

Right-hand side of screed

The value (in inches) displays the height of the tow point cylinder on the left-hand side.

Shows the value specified for the sensor on the left-hand side. For grade sensors, values are indicated in inches. When working with the slope sensor, values are indicated in percent.

Shows the type of sensor selected for the left-hand side. Displayed here in this example is the symbol of the sonic sensor used in Ground mode.

Shows the actual value picked up by the sensor.

Shows the sensitivity set for the sensor selected.

The value (in inches) displays the height of the tow point cylinder on the right-hand side.

Shows the value specified for the sensor on the right-hand side. For grade sensors, values are indicated in inches. When working with the slope sensor, values are indicated in percent.

Shows the type of sensor selected for the right-hand side. Displayed here in this example is the symbol of the sonic sensor used in Ground mode.

Shows the actual value picked up by the sensor.

Shows the sensitivity set for the sensor selected.





The ErgoPlus 3 Operator's Stand

1. The comfortable operator's stand gives an unobstructed view of all important areas of the paver such as material hopper, steering guide, and screed.

2. The seats swinging out to the sides and an operator's stand of streamlined design provide for maximum visibility of the auger tunnel, permitting the paver operator to keep an eye on the head of mix in front of the screed at all times.

3. Working comfort
The paver operator's seat and console, as well as the screed consoles can now be adjusted even more easily to personal needs.

4. A place for everything and everything in its place
The operator's stand with its streamlined design is well organized, offering the paver operator a professional workplace. The operator console is protected by a cover to prevent unauthorized access and vandalism.

5. Hardtop (option) gives excellent protection
A modern hardtop made of glass-fiber reinforced polymer material shelters the operator whether rain or shine.

6. Consistent service concept
All "Dash 3" pavers have a consistent maintenance concept with identical service intervals.

7. Safe and comfortable ascent
The walkway and comfortable middle ascent on the screed ensure safe and convenient access to the operator platform.

8. Ergonomic screed console
The height and position of the console are easily adjusted. The high-contrast color display can be read clearly from all angles.

Screed Options for all Paving Applications

Given its enormous tractive power and high laydown rate, the SUPER 2100-3i is the ideal machine for paving in large widths. In order to achieve an optimal paving result for every kind of application, VÖGELE offers screeds which operate with high precision. A variety of screed options are available for the SUPER 2100-3i, featuring different equipment with compacting systems. The paver can be combined with the SB 250 Fixed-Width Screed and the AB 500 and AB 600 Extending Screeds.



The AB 500 and AB 600 Extending Screeds, which stand out through their excellent adaptability, are ideal for paving in varying widths and on winding roads. The sturdy and high-precision single-tube telescoping system permits stable and reliable screed width control.

The VÖGELE AB 500 and AB 600 Extending Screeds are available for the SUPER 2100-3i in the TV version (with tamper and vibration) for standard compaction or in the TP1 or TP2 versions (with 1 or 2 pressure bars) for high compaction. The AB 500 and AB 600 Extending Screeds in the TP2 Plus version are ideal for paving binder course and base course with maximum precompaction.

The SB 250 Fixed-Width Screed handles a maximum paving width of 42 ft. 8 in. (13 m) and is ideally suited to use on large job sites. High performance and cost-effective paving are its strengths. Equipped with the full set of compacting systems, the SB 250 in the TVP2 version achieves a maximum degree of density. Thanks to 2 ft. 6 in. (75 cm) hydraulic bolt-on extensions, the paving width is infinitely variable within a range of 4 ft. 11 in. (1.5 m).

The Extending Screeds guarantee homogeneous surface texture thanks to uniform heating of screed plates, tamper bar and pressure bar(s).

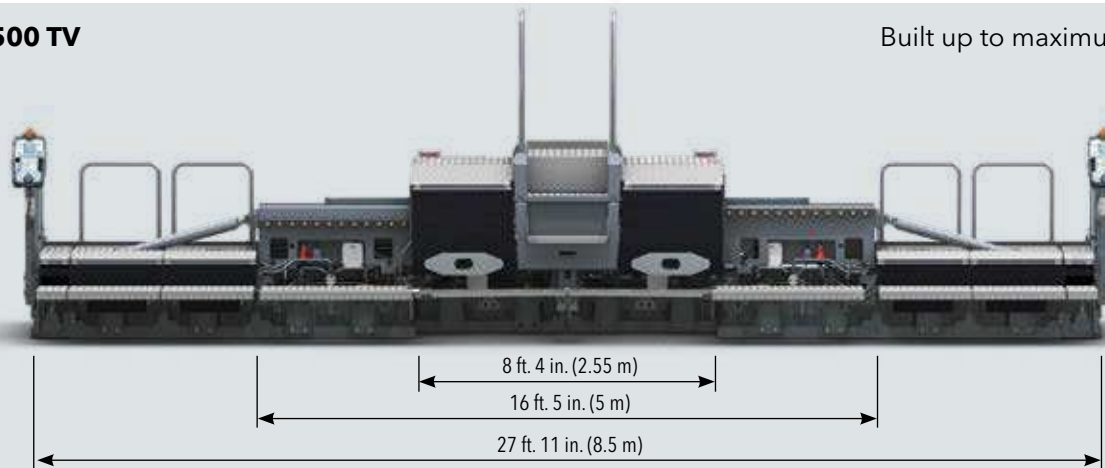
Even with the paver's engine running at minimum rpm, the time required for the screed to reach its operating temperature is reduced substantially thanks to an intelligent generator management.

When the paver functions are set to automatic, the generator management system activates Alternating mode for screed heating (heats the screed alternately on the left and right), a feature which is easy on the engine and reduces fuel consumption considerably.

Screed Options for SUPER 2100-3i

AB 500 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 by addition of bolt-on extensions up to a maximum of 27 ft. 11 in. (8.5 m).

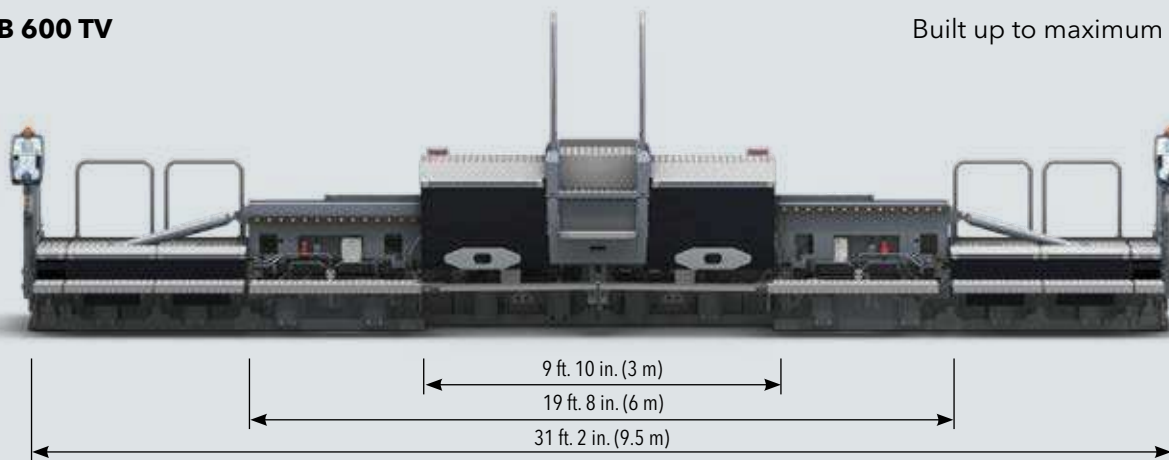
Compacting systems

- » AB 500 TV with tamper and vibration
- » 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



AB 600 TV

Built up to maximum paving width



Paving widths

- » Infinitely variable range from 9 ft. 10 in. to 19 ft. 8 in. (3 m to 6 m).
- » Larger widths by addition of bolt-on extensions up to a maximum of 31 ft. 2 in. (9.5 m).

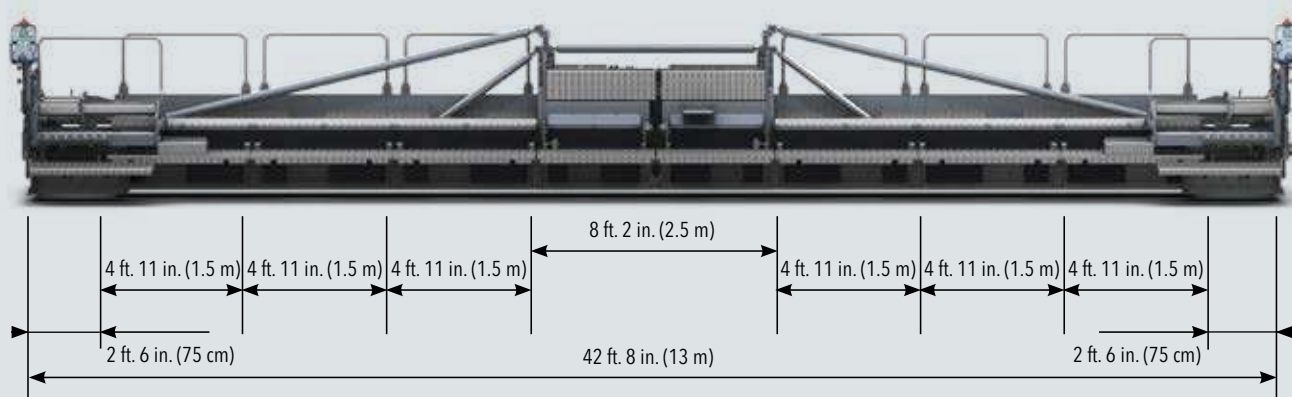
Compacting systems

- » AB 600 TV with tamper and vibration
- » 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



SB 250 TV

Built up to maximum paving width



Paving widths

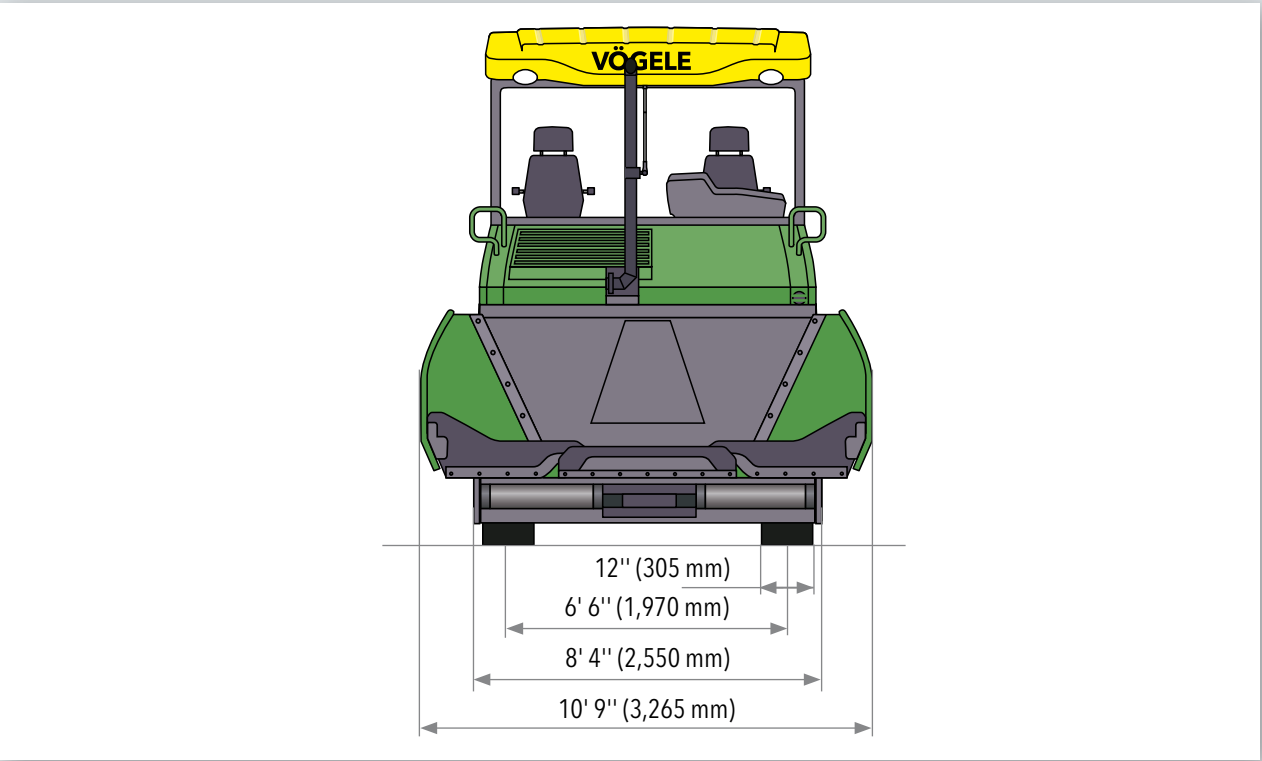
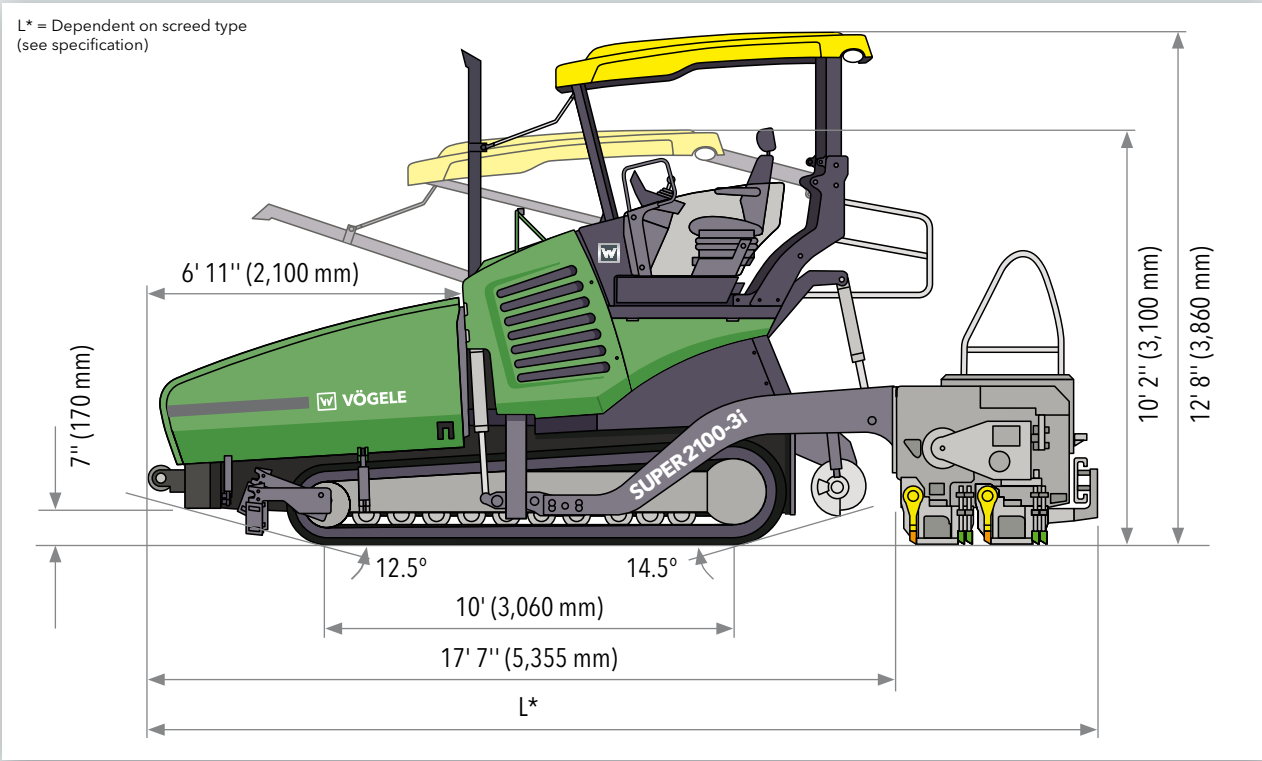
- » Basic width 8 ft. 2 in. (2.5 m). Larger widths through the addition of bolt-on extensions up to a maximum of 42 ft. 8 in. (13 m).
- » Thanks to 2 ft. 6 in. (75 cm) hydraulic bolt-on extensions, the paving width is infinitely variable within a range of 4 ft. 11 in. (1.5 m).

Compacting systems

- » SB 250 TV with tamper and vibration
- » SB 250 TP1 with tamper and 1 pressure bar
- » SB 250 TP2 with tamper and 2 pressure bars
- » SB 250 TVP2 with tamper, vibration and 2 pressure bars



All the Facts at a Glance



Power Unit	
Engine	6-cylinder diesel engine, liquid-cooled
Manufacturer	Cummins
Type	QSB6.7-C250
Output	
Nominal	250 hp (186 kW) at 2,000 rpm
ECO mode	235 hp (175 kW) at 1,700 rpm
Exhaust Emissions	
Standard	EU Stage 4, US EPA Tier 4f
Exhaust gas after-treatment	DOC, SCR
Fuel tank	106 gallons (US) (400 liters)

Undercarriage	
Crawler Tracks	provided with rubber pads
Ground contact	10 ft. x 1 ft. (3,060 mm x 305 mm)
Track tension adjuster	spring assembly
Track roller lubrication	lifetime
Traction Drive	hydraulic, separate drive and electronic control provided for each crawler track

Undercarriage	
Speeds	
Paving	up to 82 fpm (25 m/min.), infinitely variable
Travel	up to 2.8 mph (4.5 km/h), infinitely variable

Material Hopper	
Hopper Capacity	30,865 lbs. (14 tonnes)
Width	10 ft. 9 in. (3,265 mm)
Dump Height	24 in. (615 mm) (bottom of material hopper)
Push-Rollers	
Standard	oscillating
Position	can be displaced forward by 3 in. (75 mm) or 6 in. (150 mm)
Option	sprung (PaveDock)

Conveyors and Augers	
Conveyors	2, with replaceable feeder bars, conveyor movement reversible for a short time
Drive	separate hydraulic drive provided for each conveyor

Conveyors and Augers	
Speed	up to 121 fpm (37 m/min.), infinitely variable (manual or automatic)
Augers	2, with exchangeable auger flights, auger rotation reversible
Diameter	19 in. (480 mm)
Drive	separate hydraulic drive provided for each auger
Speed	up to 79 rpm, infinitely variable (manual or automatic)
Height	infinitely variable by 6 in. (15 cm), hydraulic
Lubrication	centralized lubrication system with electrically driven grease pump

Screed Options	
AB 500	infinitely variable range 8 ft. 4 in. to 16 ft. 5 in. (2.55 m to 5 m)
	maximum width (TV/TP1/TP2) 27 ft. 11 in. (8.5 m)
AB 600	infinitely variable range 9 ft. 10 in. to 19 ft. 8 in. (3 m to 6 m)
	maximum width (TV/TP1/TP2) 31 ft. 2 in. (9.5 m)
	maximum width (TP2 Plus) 27 ft. 11 in. (8.5 m)

Screed Options		
SB 250	basic width	8 ft. 2 in. (2.5 m)
	maximum width (TV/TP1)	42 ft. 8 in. (13 m)
Possible Compacting Systems	TV, TP1, TP2, TP2 Plus (AB 500/AB 600), TVP2 (SB 250)	
Layer Thickness	up to 16 in. (40 cm) (SB 250)	
Screed Heating	electrically by heating rods	
Power Supply	three-phase A.C. generator	

Dimensions (Transport) and Weights		
Width	8 ft. 4 in. (2.55 m)	
Length	tractor and screed	
AB 500/AB 600	TV	21 ft. 9 in. (6.65 m)
	TP1/TP2/TP2 Plus	22 ft. 4 in. (6.8 m)
SB 250	TV/TP1/TP2/TVP2	21 ft. 6 in. (6.55 m)
Weights	tractor and screed	
AB 500 TV	paving widths up to:	
	16 ft. 5 in. (5 m)	48,280 lbs. (21.9 tonnes)
	27 ft. 11 in. (8.5 m)	57,320 lbs. (26 tonnes)

Key: DOC = Diesel Oxidation Catalyst SCR = Selective Catalytic Reduction
AB = Extending Screed TV = with tamper and vibration
SB = Fixed-Width Screed TP1 = with tamper and 1 pressure bar TP2 Plus = equipped with special tamper, 2 pressure bars and extra weights
TP2 = with tamper and 2 pressure bars TVP2 = equipped with tamper, vibration and 2 pressure bars

Technical alterations reserved.



*The VÖGELE QR Code
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to the "SUPER 2100-3i"
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