

Universal Class

# **SUPER 1880-3 L**

## **TRACKED PAVER**



Maximum pave width 10 m  
Maximum laydown rate 1,000 t/h  
Maximum layer thickness 50 cm

**PREMIUM** LINE

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## The high-grade asphalt specialist: powerful, efficient and economical



The powerful 9 m class from VÖGELE is legendary. No other paver in the world can rival it for popularity among professional road construction teams. Although the drive system of the high-grade SUPER 1880-3 L has been completely revised, the machine still follows on seamlessly from its predecessors, offering the same proven features. To meet ecological and economic challenges in the future too, this Universal Class machine was optimized with a strong focus on slashing fuel consumption with impressive performance. In addition, the VÖGELE EcoPlus package greatly reduces noise levels.

The ErgoPlus system has also been enhanced for the "Dash 3" generation. The paver operator's console now features a particularly large colour display, providing brilliant readability even in poor lighting conditions.

With a maximum pave width of 10 m and a machine length of 6.7 m, the VÖGELE paver handles motorway projects, potent roads or the surfacing of large areas with the same high perfection as it copes with confined spaces when tackling roundabouts.



## The highlights of the SUPER 1880-3 L



**Robust and high-quality design** for a long lifetime cycle and reduced wear parts cost

**Powerful diesel engine** rated at 158 kW

**VÖGELE EcoPlus low-emissions package** for a low carbon footprint significantly reduces fuel consumption and noise levels

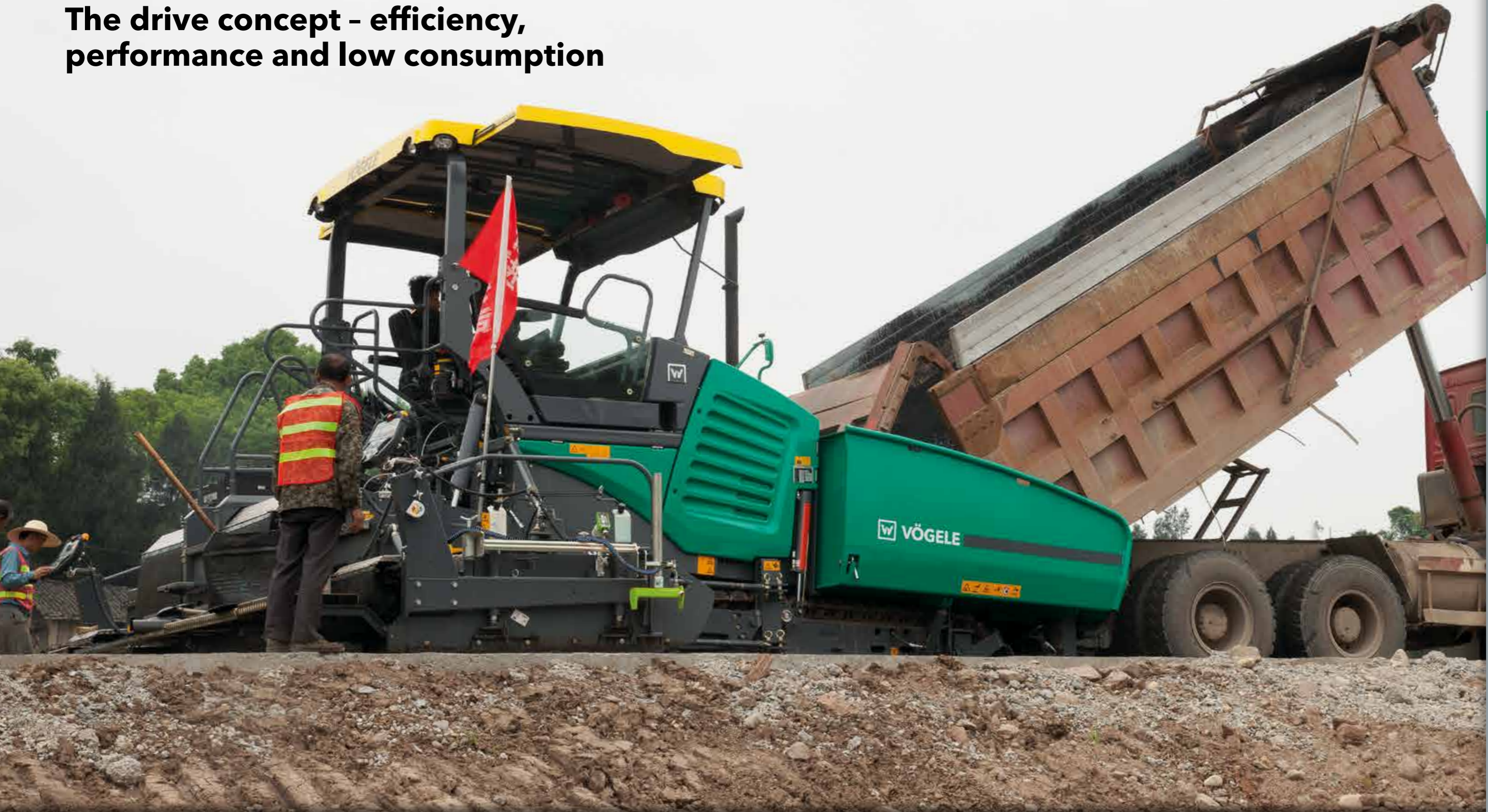
**ErgoPlus 3**, the ultimate paver operating concept with a number of additional ergonomic and functional advantages for safe and efficient operation

**The right screed for every application:**

- AB 600 Extending Screed and Fixed-Width Screed SB 300 in the TV and TP1 version for asphalt job sites guaranteeing high quality and evenness
- SB 300 HD T Fixed-Width Screed for roadbase applications



## The drive concept - efficiency, performance and low consumption



**VÖGELE's modern drive concept** is perfectly adapted to the large range of different uses of the high-grade paver SUPER 1880-3 L.

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

**Delivering a powerful drive** when maximum performance is called for, this Universal Class paver is exceedingly economical in everyday operation.

**Low input, maximum output** – all drive components operate with maximum efficiency, from the diesel engine to the hydraulic system.

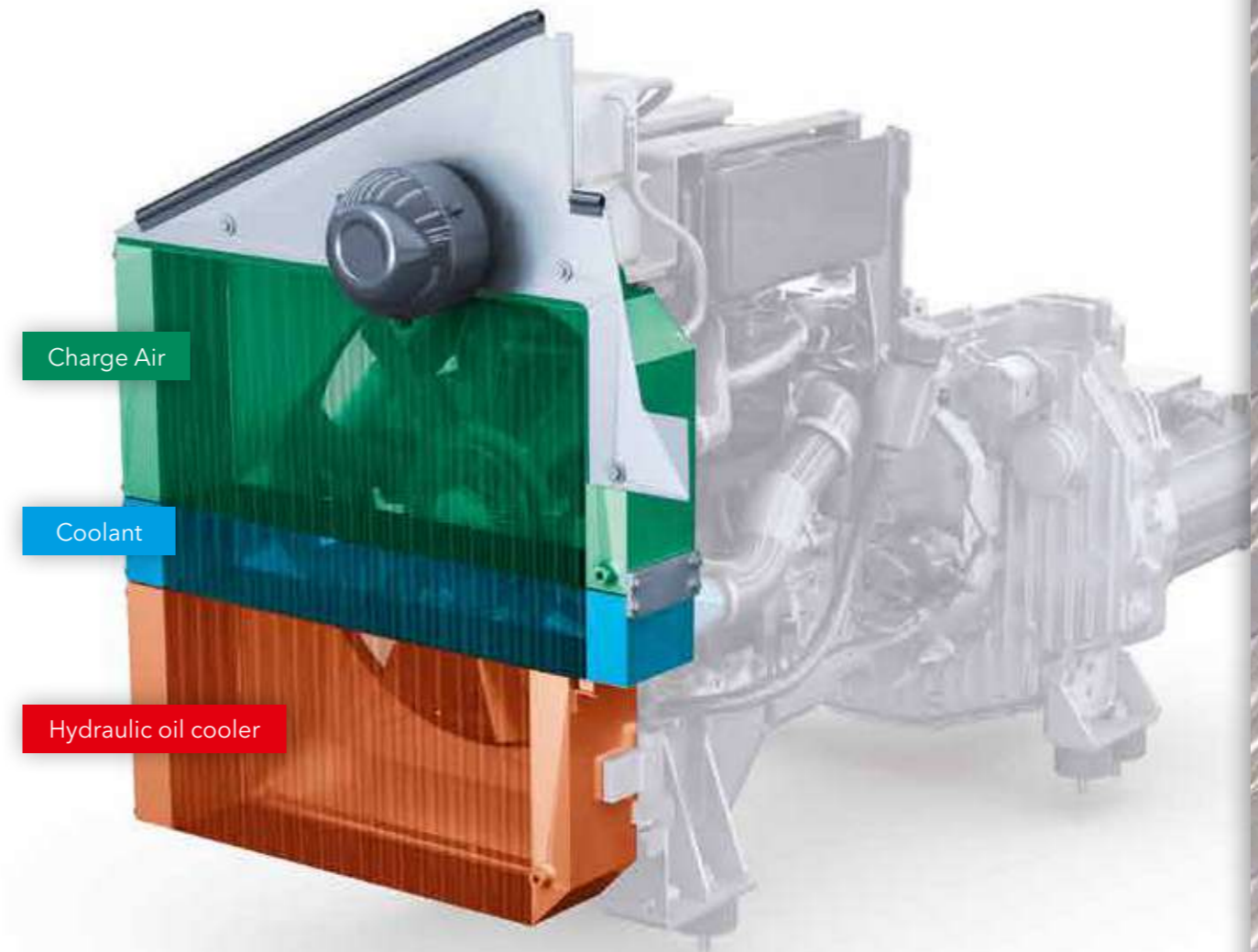
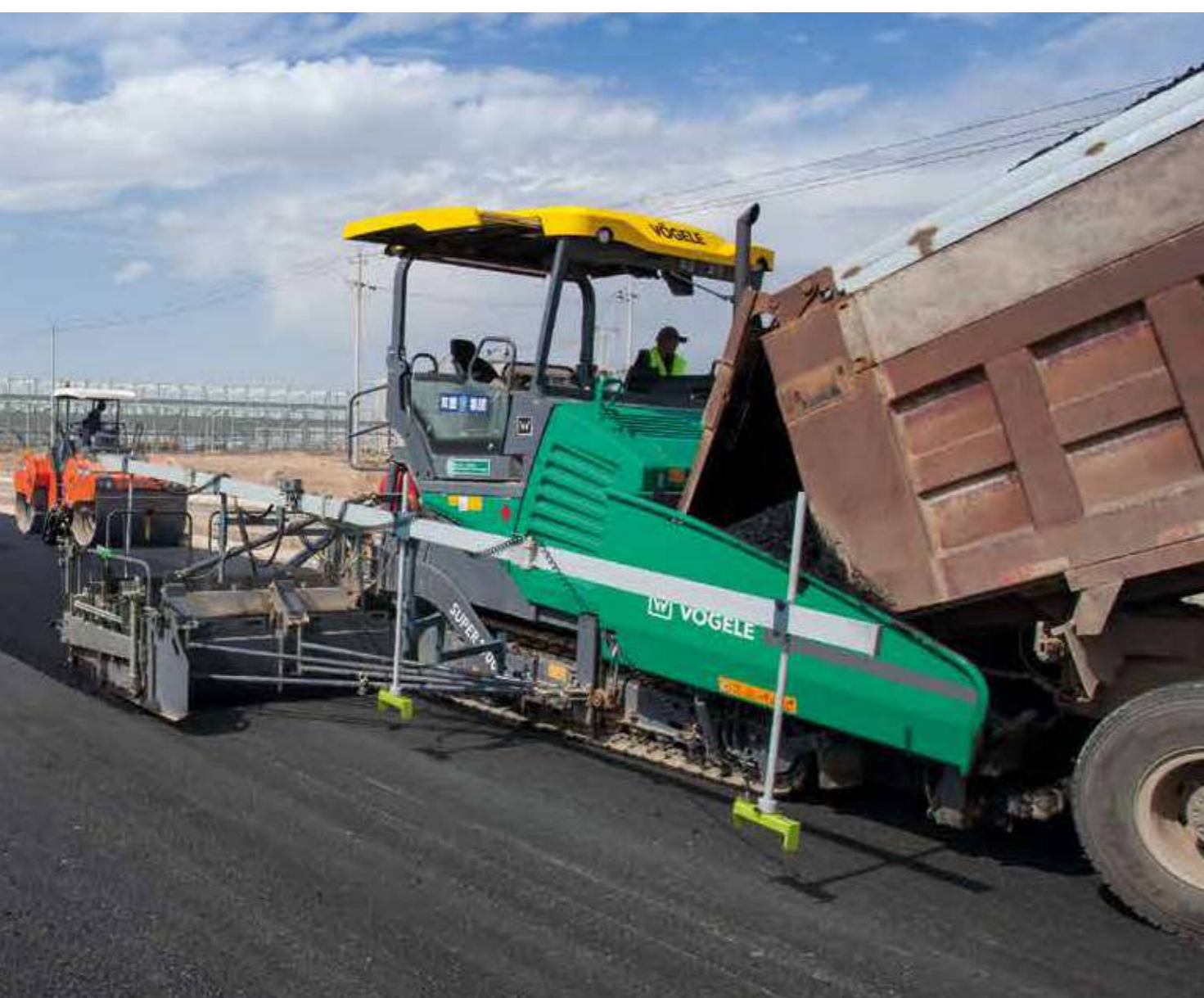


## Modern drive technology

The **SUPER 1880-3 L** is powered by a high-performance 6-cylinder diesel engine rated at 158 kW.

The modern engine complies with the Stage III Standard.

The engine features an ECO mode that reduces the nominal speed from 2,000 rpm to 1,700 rpm. This ECO mode reduces operating costs and noise emissions significantly.



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.

- » **The engine version** for countries with less strict regulations delivers 158 kW at 2,000 rpm and complies with the Stage III Standard.
- » **ECO mode for paver operation** at 1,700 rpm is perfectly adequate for numerous applications. It cuts operating costs and allows for superquiet operation. A low carbon footprint benefits the environment.
- » **A large cooler assembly** with innovative air routing is installed for perfect cooling

of the engine coolant, hydraulic oil and charge air in all climate zones worldwide. This guarantees the full performance of the engine in every climate zone worldwide (WAT) and a long service life.

- » **A powerful, air-cooled generator** with direct drive ensures rapid, uniform heating of the screed. The generator is directly driven by the splitter gearbox and therefore completely maintenance-free.



# VÖGELE EcoPlus: less is more

It goes without saying that our road pavers conform to the applicable emissions directives, but we like to go much further. That's why the machine concept of the "Dash 3" generation uses environmentally friendly innovations in machine technology, resulting in lower consumption, lower emissions and lower costs.

One of these innovations is the VÖGELE EcoPlus low-emissions package. Fuel savings of up to 25% can be achieved with VÖGELE EcoPlus, depending on the application and capacity utilization of the paver.

That doesn't just result in considerable savings for the contractor - it is good news for the environment, too. That's because every litre of fuel saved reduces carbon dioxide (CO<sub>2</sub>) emissions.



**25% FUEL SAVING**



**25% LESS CO<sub>2</sub> EMITTED**



**LOWER NOISE EMISSIONS**

## The technical innovations

01



### Splitter gearbox with ability to disengage hydraulic pumps

When the paver is stationary, all the hydraulic pumps needed for "traction", "conveyors and augers" and "compaction" are disengaged automatically. The result? Lower fuel consumption.



02

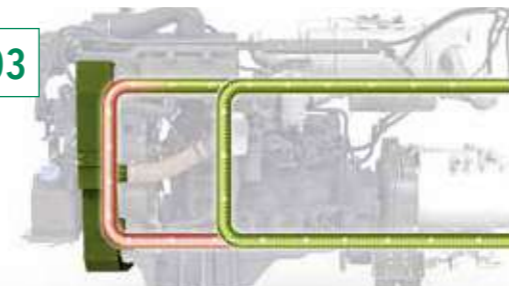


### Energy-optimized tamper drive

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.



03



### 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.



04



### Variable-speed fan

The variable-speed fan automatically adapts to engine load and ambient temperature. This type of drive saves energy and reduces noise emissions.





## Precision on tracks

The **optimized crawler unit** with additional track carrier rollers maximizes the quiet running of the paver. The electronically controlled separate

drives installed in the sprockets of the crawler tracks permit constant straight movement and precise steering through curves.



- » **Thanks to powerful separate drives** fitted into the sprockets for crawler tracks, engine output is translated into pave speed with no loss of power.
- » **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.
- » **New track pads** deliver maximum traction on any base. Their high abrasion resistance makes for a long service life. They are also easy to replace during servicing.





# Perfect material management for perfect paving quality



**A continuous flow of mix** is key to ensuring uninterrupted and high-quality paving for this high-performance paver. 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.



## Large material hopper, easy feed with mix

The material hopper and chassis of the SUPER 1880-3 L have been specially adapted to the feed vehicles which are customary in China. Any mix lorry can dock onto the SUPER 1880-3 L without difficulty, thanks to its great length and low feed height. What's more, the wide, oscillating push-rollers can be moved 150 mm

and 75 mm forward for a convenient and jerk-free material supply to the paver from any kind of feed vehicle. The large material hopper holds up to 15 tonnes. This not only permits rapid unloading of the feed lorries, but also ensures that there is an ample buffer of material when changing lorries.

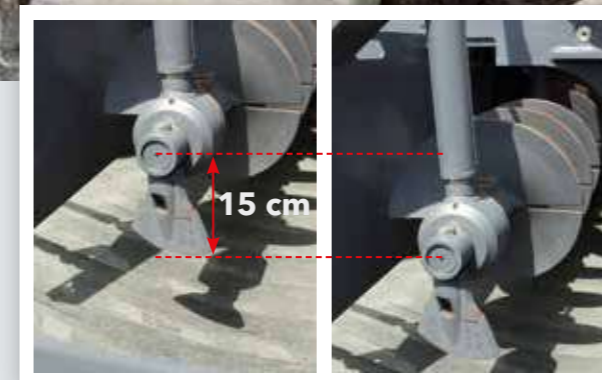


- » **Any customary** mix lorry can dock onto the SUPER 1880-3 L thanks to its length of 2.42 m and low feed height of just 55 cm.
- » **Large oscillating push-rollers** can be moved 150 mm and 75 mm forward for convenient material transfer even in curves.
- » **Easy feed with mix** thanks low material hopper, wide hopper sides and sturdy rubber baffles fitted to the hopper front.
- » **The large material hopper** holding 15 tonnes is amply dimensioned so that a sufficient quantity of mix is stored at all times. No problem to tide over difficult situations such as paving under bridges, for instance.

## Precise spreading of mix

**Optimally designed mix conveying system** with conveyors ascending towards the rear avoids segregation and diminishes wear of conveyors and conveyor bearings. The proportional control

provided for conveyors regulates flow rates to precisely match the requirement of mix in front of the screed for excellent paving results.



*The augers of the SUPER 1880-3 L are hydraulically infinitely variable in height up to 15 cm, even while paving. This provides for quick and easy adaptation to the desired layer thickness across the full pave width.*

- » **Powerful, separate hydraulic drives** installed for conveyors and augers, thus permitting high laydown rates up to 1000 t per hour.
- » **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.
- » **The ability to adjust the augers in height** also provides for an optimal head of material in front of the screed when placing thin layers or when the layer thickness varies.



## The ErgoPlus 3 operating concept

**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. The ErgoPlus 3 operating concept accordingly focuses on the operator. With VÖGELE pavers, the user consequently retains full control over the machine and the construction project.

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





## The paver operator's **ErgoPlus 3** console



***“Full control for the machine operator!”***



# The paver operator's ErgoPlus 3 console

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. This is 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 for monitoring and adjusting basic settings

**Idling function**

Idling function is provided for the warm-up or cleaning of conveyors, augers and tamper.

**Reversing conveyor movement**

In order to avoid mix 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 mix from the rear of the conveyor tunnel back inside, takes place for a short time only and stops automatically.

**Automatic functions**

For conveyors and augers, operators can easily select Manual mode or Automatic mode. When selecting Automatic mode for the augers, sensors installed for the material level in the auger tunnel provide that exactly the desired amount of mix is spread in front of the screed.

**Choice of operating modes for the paver**

All the main paving and machine functions can be controlled directly by individual push-buttons on the ErgoPlus 3 paver operator's console. By pressing the arrow buttons, up or down, the operator changes modes in the following order: "Neutral", "Job Site", "Positioning" and "Pave". An LED indicates the mode selected. When leaving "Pave 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 restored automatically.

**Display of the paver operator's console**

The redesigned colour display 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 pave speed and the material level in the conveyor tunnel. Further paver functions such as tamper and vibrator speeds or auger feed rates can easily be set up via the display, too. And the display gives access to machine-related information such as fuel consumption or service hours.

**Steering**

For turning a large radius, fine steering allows to pre-set a track position which is maintained automatically without a need for manual intervention by the operator.

**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.

**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 screed operator's ErgoPlus 3 console



**The screed is crucial for pavement quality,** so easy, safe handling of all screed functions is of the 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 features a robust design 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 surrounded by raised rings, to make them 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 of the screed console

The display of the screed console allows the screed operator to control and monitor both the left and the right side of the screed. The screed operator can quickly and easily adjust machine-related parameters such as tamper speed or conveyor speed. The clear menu structure, combined with easily understandable, self-explanatory symbols neutral in language, makes operating the display panel both simple and safe.



### Niveltronic Plus

Niveltronic Plus, the cutting-edge VÖGELE System for Automated Grade and Slope Control, is very easy to learn and achieves outstanding paving results. All important functions of Niveltronic Plus can be accessed directly on menu level 1. The operator is provided with a variety of information, such as the sensor currently selected or the deviation from specified values for layer thickness.

An electronic system installed in the screed tow point rams picks up the tow points' positions. Display of the current tow point positions and of the transverse slope on the screed console greatly facilitates set-up of the screed. All sensors connected are recognized automatically by Niveltronic Plus and can be monitored and controlled from either screed console. An open interface is provided for connection of a GPS system, thus permitting 3D paving.



### Ergonomic screed width control at two speeds

Screed width can be effortlessly adjusted by means of the SmartWheel. This is done at two speeds: slow, for precise 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 is more, the downward-angled high-power LED lighting gives the operator a perfect view of all processes associated with the side plate.







## The ErgoPlus 3 operator's stand

- 1. The comfortable operator's stand** gives an unobstructed view of all crucial areas on the paver such as material hopper, steering guide or screed.
- 2. The seats swinging out** to the sides and an operator's stand of streamlined design likewise provide 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 on the platform, as well as the screed operator's platforms 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's console can be protected by a shatter-proof cover to prevent wilful damage.

- 5. A hardtop for complete protection**  
The modern hardtop made of glass fibre-reinforced polymer material shelters the operator come rain or shine. The hardtop, including exhaust pipe, raises up or lowers down quickly and with effortless ease by a manually operated hydraulic pump.
- 6. Consistent service concept**  
All "Dash 3" pavers have a consistent maintenance concept with identical service intervals.

- 7. Safe and convenient step**  
The walkway and convenient central step on the screed ensure safe and convenient access to the operator's platform.
- 8. Ergonomic screed console**  
Robust design with protected, rubber-coated edges. The height and position of the console are easily adjusted. The high-contrast colour display can be read clearly from all angles.



# Screeds to meet all needs

The powerful and high-grade SUPER 1880-3 L stands out through superb adaptability, a feature making it perfectly suited to most varied paving tasks.

Whether it comes to building large traffic areas, highway or motorway - this paver is ideal for any kind of major scale projects.

A number of screed options is available for the SUPER 1880-3 L to combine with.



**VÖGELE AB 600 Extending Screed** is the preferred choice on all those jobs where pave width varies and prime pavement quality counts. Thanks to their sturdy single-tube telescoping system, these screeds can be set quickly and accurately to any pave width desired.

**Effective sound insulation** in the extending screeds reduces noise levels on the job site. In combination with the low-noise tractor unit, these screeds are hence ideally suited for use even in noise sensitive areas.

**VÖGELE SB 300 Fixed-Width Screeds** are ideal primarily for paving in large widths.

The **VÖGELE AB 600** Extending Screed and the SB 300 Fixed-Width Screed are available in TV version (with tamper and vibrators) and in TP1 version (with tamper and 1 pressure bar) for high compaction.

The **SB 300 HD T** has been specially developed for the placing of cold materials in roadbase construction such as cement-treated base (CTB). It features robust workmanship and an extremely high compacting effort. The special tamper geometry guarantees high compaction, even when placing thick layers.

**Homogeneous surface texture** thanks to uniform heating of screed plates, tamper bars 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.

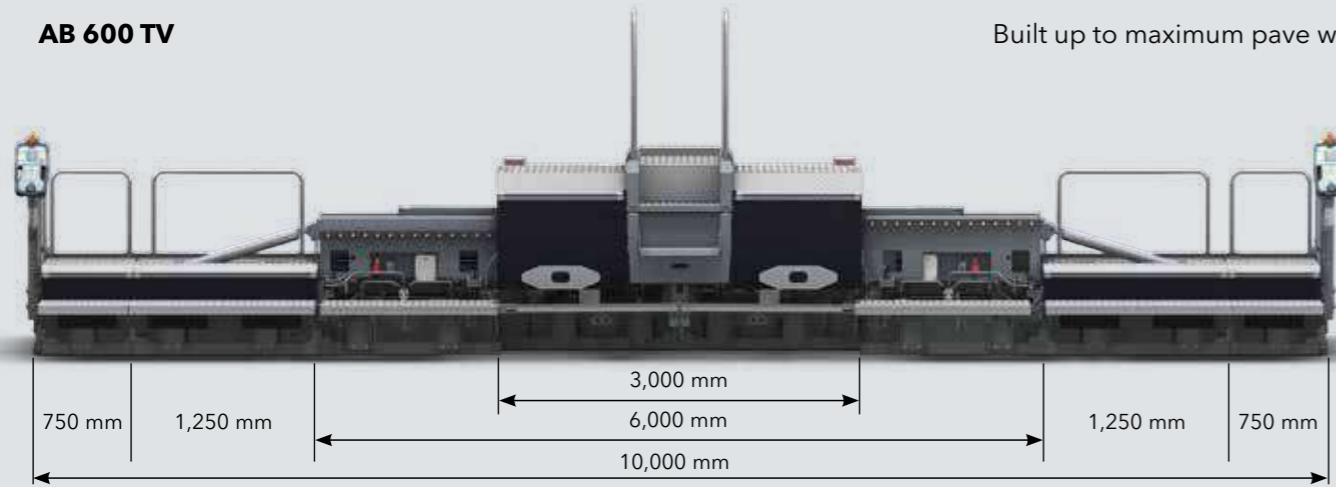
When the paver functions are set to automatic, the generator management activates alternating mode for screed heating (heats the screed alternately on the left and right), a feature which is easy on the engine and reduces fuel consumption considerably.



# Screed options for SUPER 1880-3 L

## AB 600 TV

Built up to maximum pave width



### Pave widths

- » Infinitely variable range from 3 to 6 m
- » Larger widths if bolt-on extensions up to a maximum of 10 m are added

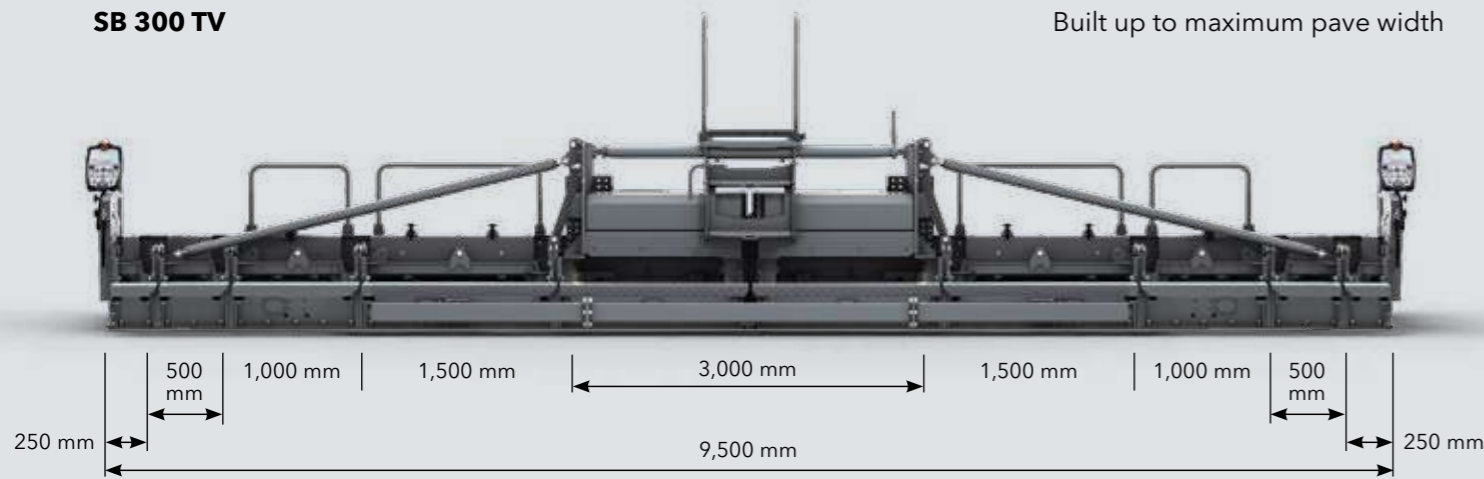
### Compacting systems

- » AB 600 TV with tamper and vibrators
- » AB 600 TP1 with tamper and 1 pressure bar



## SB 300 TV

Built up to maximum pave width



### Pave widths

- » Basic width 3 m. Larger widths through the addition of bolt-on extensions up to a maximum of 9.5 m
- » Thanks to 75 cm hydraulic bolt-on extensions, users of fixed-width screeds can also benefit (optional) from the advantages of the VÖGELE Extending Screed technology

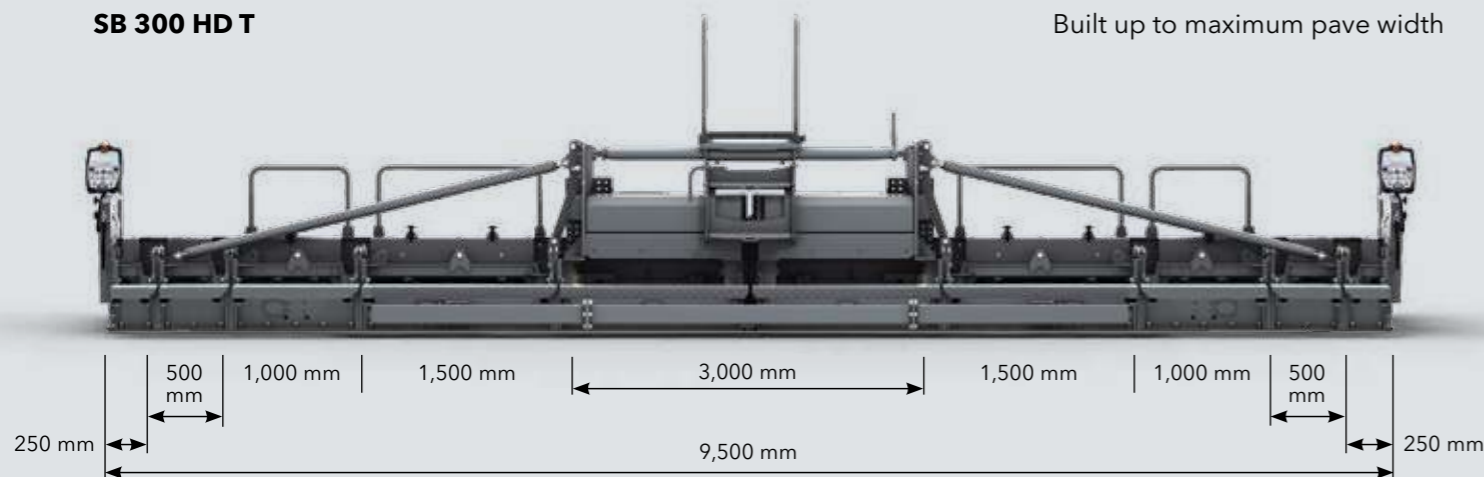
### Compacting systems

- » SB 300 TV with tamper and vibrators
- » SB 300 TP1 with tamper and 1 pressure bar



## SB 300 HD T

Built up to maximum pave width



### Pave widths

- » Basic width 3 m. Larger widths through the addition of bolt-on extensions up to a maximum of 9.5 m
- » The adjustable side plates can be adapted to varying pave widths at any time. The pave width can thus be reduced by up to 25 cm on each side

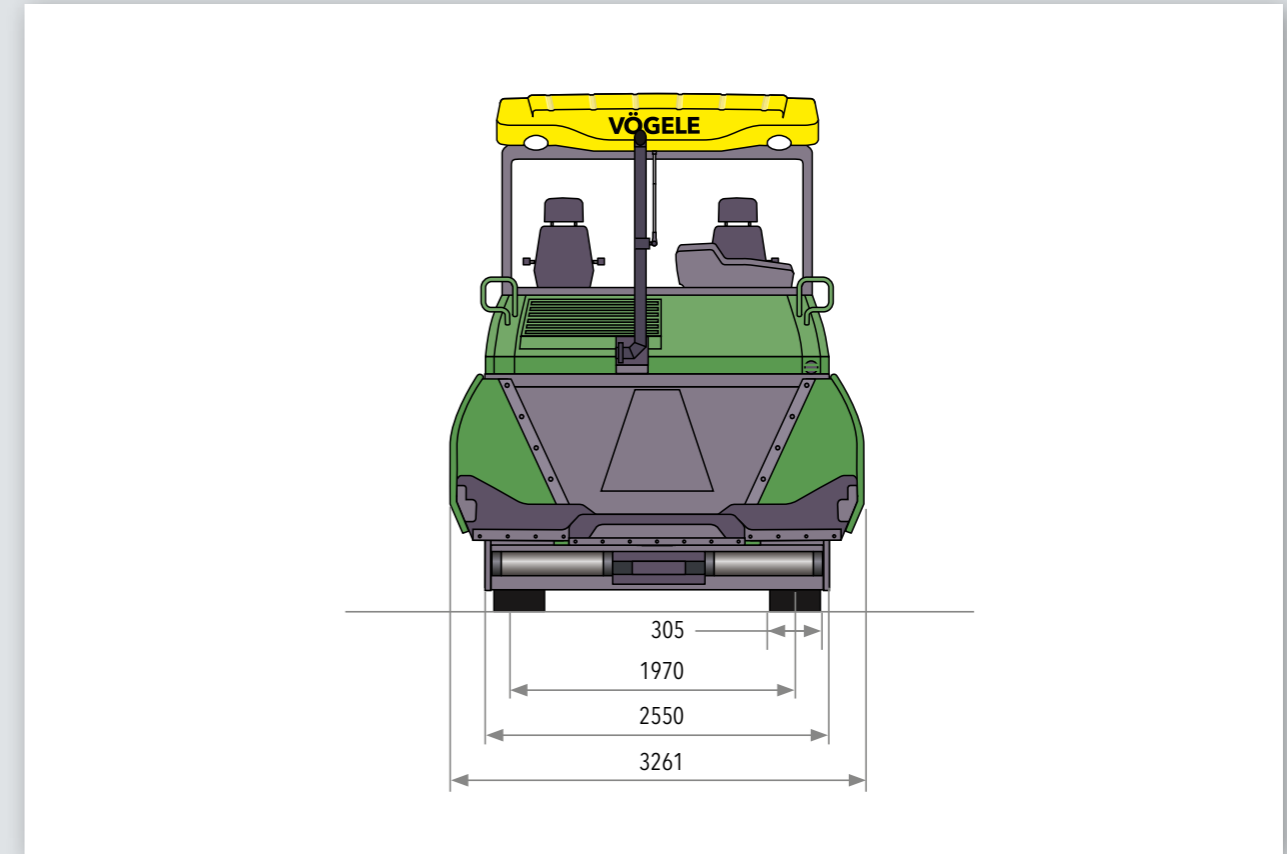
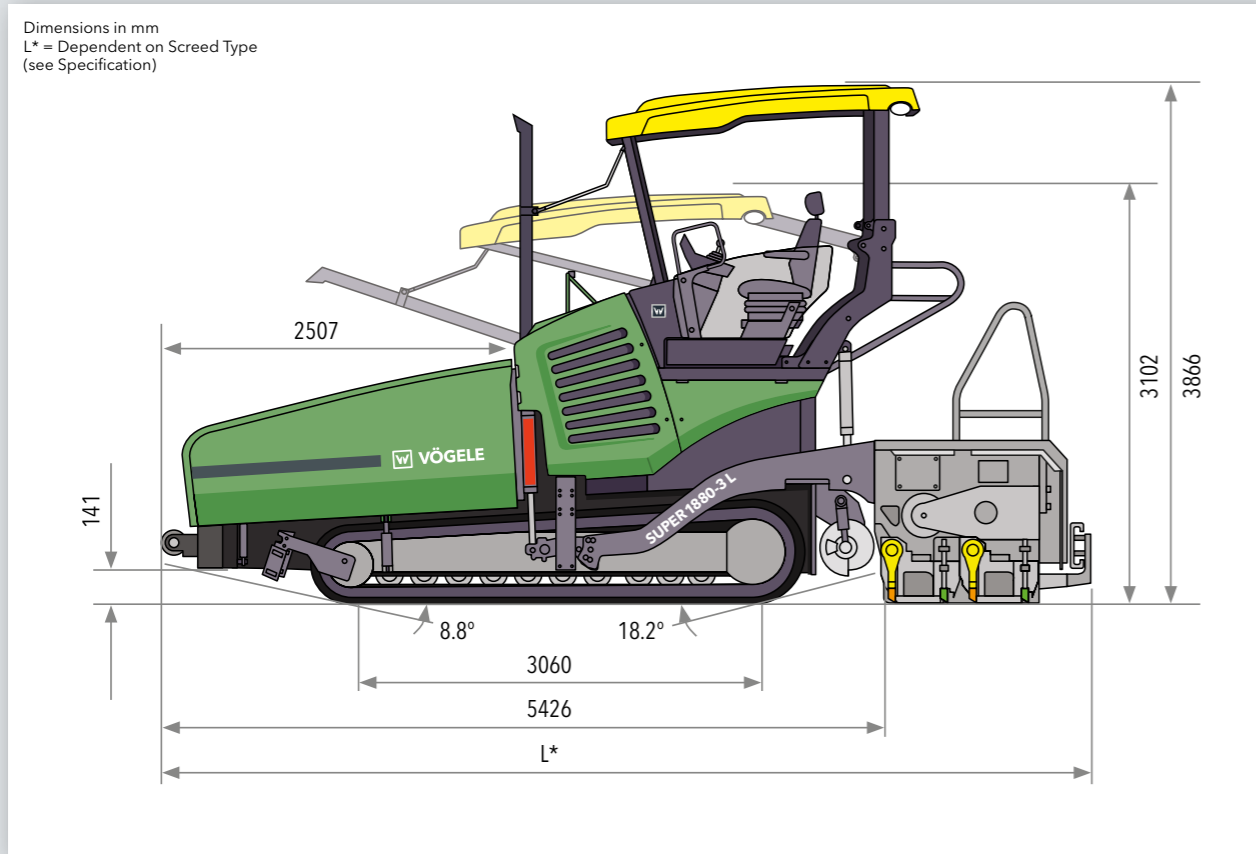
### Compacting systems

- » SB 300 HD T with special tamper geometry





# All the facts at a glance



Power unit	
Engine	6-cylinder diesel engine, liquid-cooled
Manufacturer	Dongfeng-Cummins
Type	QSB6.7-C215
Output	
Nominal	158 kW at 2,000 rpm (according to DIN)
Exhaust emissions standard	Stage III (MEP)
Fuel tank	350 litres

Undercarriage	
Crawler tracks	provided with rubber pads
Ground contact	3,060 x 305 mm
Track tension adjuster	spring assembly
Track rollers	lifetime grease lubricated
Traction drive	hydraulic, separate drive and electronic control provided for each crawler track
Speeds	
Paving	up to 24 m/min., infinitely variable
Travel	up to 4.5 km/h, infinitely variable

Material hopper	
Hopper capacity	15 t
Width	3,261 mm
Feed height	550 mm (bottom of material hopper)
Push-rollers	
Standard	oscillating
Position	can be displaced forwards by 75 mm and 150 mm

Conveyors and augers	
Conveyors	2, with replaceable feeder bars, conveyor movement reversible for a short time
Drive	separate hydraulic drive provided for each conveyor
Speed	up to 31 m/min., infinitely variable (manual or automatic)

Conveyors and augers	
Augers	2, with exchangeable auger blades, auger rotation reversible
Diameter	420 mm
Drive	separate hydraulic drive provided for each auger
Speed	up to 79 rpm, infinitely variable (manual or automatic)
Height	infinitely variable by 15 cm, hydraulic
Lubrication	centralized lubrication system with electrically driven grease pump for conveyor and auger bearings

Screed options	
AB 600	basic width 3 m
	infinitely variable range 3 to 6 m
	maximum width (TV) 10 m
	maximum width (TP1) 8 m
	compacting systems TV, TP1

Screed options		
SB 300	basic width	3 m
	maximum width (TV)	9.5 m
	maximum width (TP1)	8.5 m
	compacting systems	TV, TP1
SB 300 HD	basic width	3 m
	maximum width (T)	9.5 m
	compacting system	T
Layer thickness	up to 50 cm (SB 300)	
Screed heating	electric by heating rods	
Power supply	three-phase AC generator	

Dimensions (transport) and weight		
Length	tractor unit and screed	
	SB 300	6.57 m
	AB 600	6.71 m
	TP1	6.84 m
Weight	tractor unit with screed	
	AB 600 TV	20,960 kg
	pave widths up to 6 m	26,360 kg
	pave widths up to 10 m	

Key: AB = extending screed SB = fixed-width screed T = with tamper TV = with tamper and vibrators HD = heavy-duty MEP = ministry of environmental protection

Technical alterations reserved.





Your VÖGELE QR Code will take you straight to the "SUPER 1880-3 L" on our website.



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