

Tracked Paver

SUPER 3000-2

Highway Class



Maximum Pave Width 16m

Maximum Laydown Rate 1,600 tonnes/h

Transport Width 3m

Highlights

- » Maximum pave width 16m
- » Maximum laydown rate 1,600 tonnes/h
- » Maximum layer thickness 50cm
- » Transport width 3m
- » Maximum pave speed 24m/min.
- » Powerful Deutz engine rated at 300kW

- » Combines with AB 600 Extending Screed or SB 300 Fixed-Width Screed
- » ErgoPlus operating system for maximum user-friendliness
- » Hardtop made of glass fibre reinforced polymer material with large extending sunshades
- » High-power electric heating system
- » Heavy-Duty Kit (option)



Pure Performance from VÖGELE



The SUPER 3000-2 is perfectly equipped for all kinds of large-scale road construction projects thanks to its outstanding performance in terms of laydown rate, layer thickness and pave width.

The flagship of the VÖGELE fleet of pavers is capable of building asphalt pavements for motorways or large traffic

areas up to 16m wide without joints. But the extremely powerful SUPER 3000-2 is also ideal for roadbase jobs. Layers up to 50cm thick can be reliably placed in a single pass. For placing non-bituminous materials of a particularly abrasive nature, a Heavy-Duty Kit is available as an option, guaranteeing long service life of all wearing parts. Given its high tractive power and paving performance,

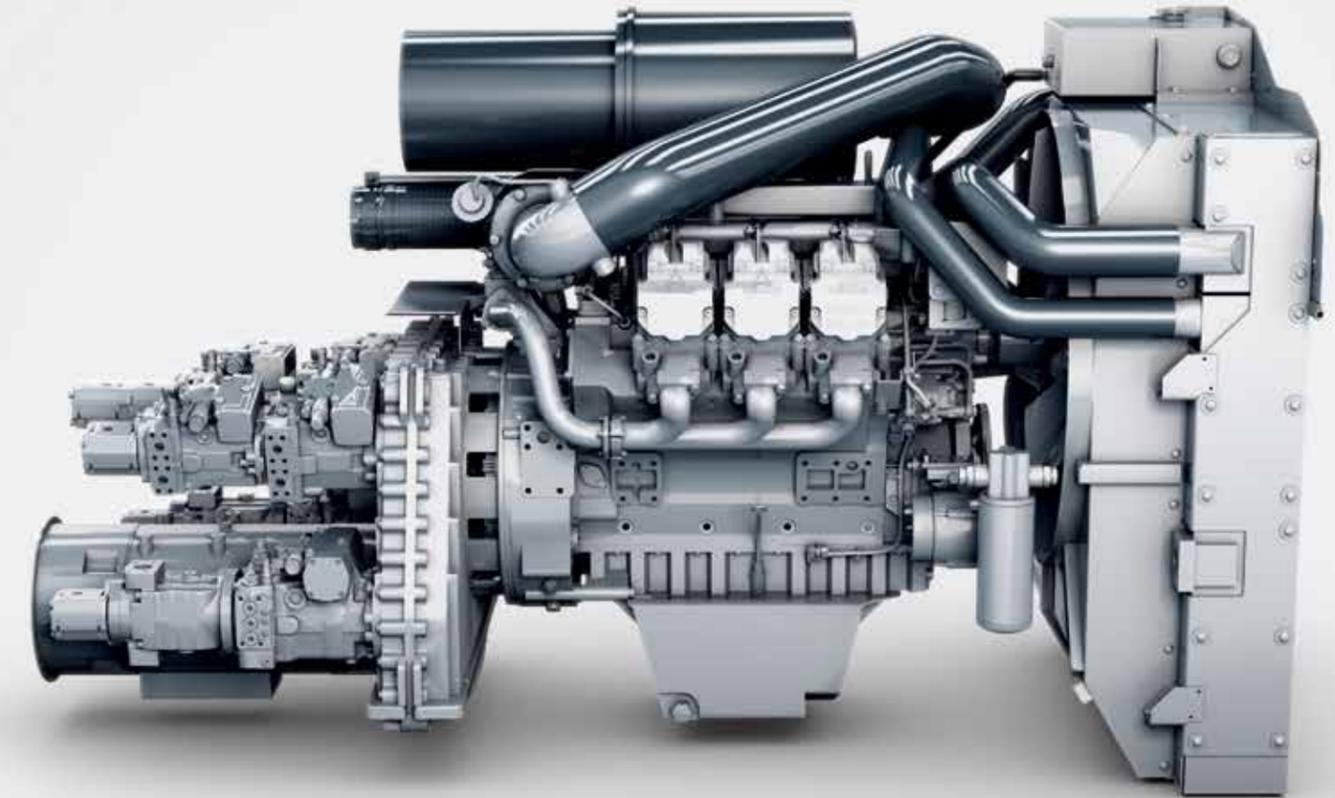
the SUPER 3000-2 gets these challenging jobs done at record-breaking speeds. And in this respect, quantity by no means comes before quality.

Drive system, conveyors and augers as well as compacting systems are dimensioned so as to build pavements true to line and level and achieve superb surface accuracy and

optimal compaction even when working at the highest performance level in tough continuous operation.

The SUPER 3000-2 is a reliable performer on all large-scale job sites and allows maximum paving quality to be achieved highly economically.

The Drive Concept: Impressive Performance, Fascinating Efficiency



The SUPER 3000-2 is a genuine powerhouse, with its 6-cylinder Deutz engine delivering a staggering 300kW. Yet despite this high performance, fuel consumption is kept low at 217g/kWh. Like all machines from the Compact Class upwards, the SUPER 3000-2 can also be operated in the economical ECO Mode (292kW at 1,500 rpm), allowing the fuel consumption and noise emission of the already quiet paver to be reduced even further.

With a capacity of 600 litres, the fuel tank is large enough to see the paver through long working days without refuelling. The splitter gearbox is designed for high performance and supplies hydraulic oil reliably

to all hydraulic systems. The three-phase AC generator of the SUPER 3000-2 is flange-mounted directly to the splitter gearbox, which provides for a maintenance-free generator drive. A particularly high generator output guarantees rapid heating of the screed and efficient operation of electric screed heating across the full pave width.

VÖGELE pavers traditionally come with extremely efficient low-noise cooling systems. The SUPER 3000-2 is equipped with a high-performance cooler assembly for engine coolant, hydraulic oil and charge air.

» **Extremely powerful 6-cylinder Deutz engine** delivering 300kW at just 1,800 rpm.

» **ECO Mode** (1,500 rpm) cuts operating costs and allows particularly quiet operation.

» **A large cooler assembly** with innovative air routing is installed for perfect cooling in all climatic zones the world over.

» **The splitter gearbox** reliably supplies the paver's hydraulic systems with exactly the power needed for the job in hand.

» **The generator** is flange-mounted directly to the splitter gearbox, which provides for a maintenance-free generator drive.

Large Material Hopper



- » The large material hopper holding 17.5 tonnes is amply dimensioned so that an optimal quantity of mix can be stored even when laydown rates are high.
- » Easy feeding with mix thanks to low material hopper, wide hopper sides and sturdy rubber baffles fitted to the hopper front.
- » Large oscillating push-rollers for convenient and shock-free docking of feed vehicles even when the paver is working.

As with all VÖGELE pavers, supplying the SUPER 3000-2 with mix is a clean, safe and swift process. A hydraulically operated hopper front (option) prevents spills of mix when feed lorries change and permits the material hopper to be completely emptied, so no hand work with shovels is required.

Unrivalled Material Handling and Laydown Rates

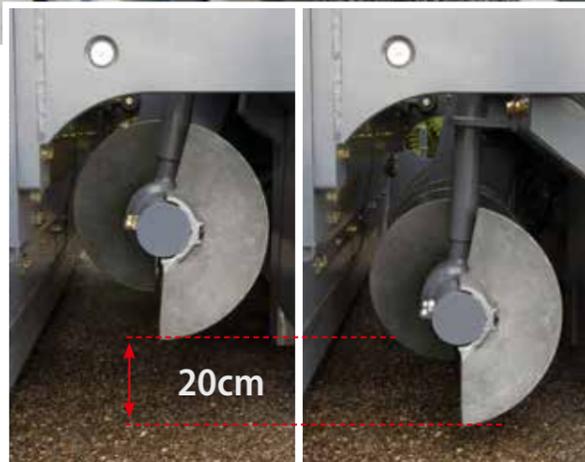


The SUPER 3000-2 paver's material hopper and material handling systems are dimensioned for performance at the highest level, achieving laydown rates up to 1,600 tonnes/h. Large job sites can thus be finished in substantially less time and, as a result, more economically.



- » Even at maximum conveyor speed, the conveyor tunnel (1.62m wide and 40cm high) provides sufficient space for an uninterrupted flow of mix.
- » Conveyors equipped with powerful separate hydraulic drives and high-performance augers ensure a continuous flow of mix even when the pave speed varies. Conveyors are provided with separate control, independently of each other, for an optimal head of mix in front of the screed.

Auger Height Adjustment Across the Full Pave Width



The auger height can be adjusted hydraulically within a range of 20cm while paving, to cater precisely to any layer thickness.

» **Fast and easy adaptation** to the desired layer thickness thanks to hydraulic adjustment of augers in height across the full pave width (standard equipment). This provides for an optimal head of mix in front of the screed, even when placing thin layers.

» **The possibility of adjusting 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.

» **Large auger blades** (diameter 480mm) provide for an optimal head of mix in front of the screed and prevent segregation, even when paving across large widths.

Precision on Tracks



Thanks to their large footprints, the paver's crawler tracks ensure constant pave speed on every base. Separate drive and electronic control installed for each track provide for positive tracking when moving straight and accurate cornering. All in all, the SUPER 3000-2 features an exceptional drive concept that caters to the special requirements of a high-performance paver.

» **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.

» **The optimized crawler unit** maximizes the smooth 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.



Heavy-Duty Kit



» The SUPER 3000-2 comes with highly wear-resistant bottom plates and return pulleys for the conveyors, even in the standard version.

» If the machine is used primarily for roadbase and base course construction, a Heavy-Duty Kit is available as an option, which effectively counteracts abrasive wear with reinforced guards for the conveyor tunnel and the chassis, and modified auger blades.

High material throughput is also important for large paving projects requiring the placing of non-bituminous, abrasive materials. The SUPER 3000-2 is ideally equipped for this kind of work. Even in the standard version, the bottom plates of the conveyors and the return pulleys for conveyor chains are of a highly wear-resistant design.

Easy Servicing



The well-thought-out service concept makes short work of maintenance services and prevents unnecessary downtime.



» Large panels give convenient access to all maintenance points.

» Service indicators and measuring ports facilitate diagnosis and service.

» All hydraulic pumps are located on the splitter gearbox and provide maximum service-friendliness thanks to their clear arrangement and accessibility.

» All bearings that are exposed to the high temperatures of the mix are automatically supplied with the required amount of grease by a centralized lubrication system.

» Easily accessible measuring ports.

» The generator is flange-mounted directly to the splitter gearbox, which provides for a maintenance-free generator drive.

VÖGELE ErgoPlus

The User-Friendly Operating System

Even the best machine with the most advanced technology can only really show its strengths if it can be operated easily and as intuitively as possible, and offers the operator a maximum of ergonomic comfort and workplace safety. Therefore, the ErgoPlus operating concept focuses on the operator.

On the following pages you will find detailed information on the extensive functions of the ErgoPlus operating concept. ErgoPlus encompasses the operator's stand, the paver operator's and screed consoles and Niveltronic Plus, the System for Automated Grade and Slope Control.

The operating consoles are designed for optimum clarity, presenting all paver functions in logical groups. There's a place for everything and everything in its place on the operator's stand, and the paver operator has an excellent overview of all the key points of the paver.

All told, the ErgoPlus operating concept enables the operator to respond to job site working processes and situations more quickly and accurately, giving him total control over the machine and the project.

The Strong Points of ErgoPlus

- » **Operator platform** of streamlined design and well organized for a high level of safety at work.
- » **The paver operator's seats** and the operating console are adjusted conveniently and easily to meet his personal needs. This provides a maximum of ergonomic comfort.
- » **All vital paver functions** are clustered in logical groups on the paver operator's console. Their operation is easy to learn.
- » **Easy operation** of VÖGELE Niveltronic Plus, the System for Automated Grade and Slope Control, to achieve perfect paving results.
- » **The ErgoPlus paver operator's console** is of modular design. This smart concept is not only ideal in practice, but also saves costs. It offers the great advantage that single modules can be replaced if necessary without needing to replace the entire unit.



Paver Operator's ErgoPlus Console



ErgoPlus Screed Console



ErgoPlus Operator Stand

The Paver Operator's **ErgoPlus** Console

Full Control for the Machine Operator



The Paver Operator's ErgoPlus Console

Clear and Logical Arrangement of Controls

The paver operator's ErgoPlus 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 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.

As darkness falls, the paver operator's console is back-lit automatically, as in a car. This makes night-time work easy and relaxed.

Examples of Paver Functions

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.



No-Load Function

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



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 mix level in the auger tunnel ensure that exactly the desired amount of mix is spread in front of the screed.



Choice of Operating Modes for the Paver

On the ErgoPlus 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 "Pave Mode". 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.



MODULE 1
Conveyors and Augers, Traction

MODULE 2
Screed

MODULE 3
Material Hopper and Steering

MODULE 4
Display for set-up of vital paver functions on menu level 1. Secondary functions on menu level 2.

Display of the Paver Operator's Console
The large, easy-to-read display shows vital information on menu level 1 – such as the positions of the screed tow point rams or the pave speed. Further paver functions such as speeds for tamper and vibrators or feed rate for the conveyors 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.



Potentiometer for Steering
For long curves with a constant radius, the desired track position can be pre-selected through the potentiometer for steering. As long as this function is not deactivated, the feeder automatically follows the curve without a need for operator intervention.



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. Screed Assist pressure and balance can be set via the display. Screed Assist is active only when the screed is floating.



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



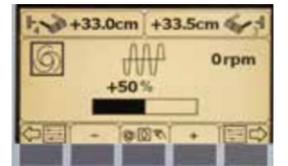
The Screed Console

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 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. Machine-related parameters such as tamper speed or conveyor speed can be adjusted conveniently via the display panel of the screed console. 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 (Option)

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 specified and actual 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.



Automatic Mode for Augers, Reversing Auger Rotation

Just like the paver operator, the screed operator, too, can select Manual Mode or Automatic Mode for conveyors and augers. The „Reversing Auger Rotation“ function is very useful and comfortable in practice.



The ErgoPlus Operator Stand



Excellent All-Round Visibility

» The comfortable operator stand gives an unobstructed view of all crucial areas on the paver such as material hopper, steering guide or screed. It allows the paver operator to closely monitor the paver's feed with mix and the process of paving.

» The seats swinging out to the sides and an operator 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.



Working Comfort

» A few adjustments are all it takes for the paver operator to position his console exactly to meet his personal needs. It can be displaced across the full width of the operator's stand, swivelled out to the sides and tilted.

» When working with the seat swung out, the paver operator's console can be swivelled out together with the operator's seat. In this way, an ergonomically optimized workplace is set up in no time at all. A legroom kept warm adds to operator comfort during the cold season.



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.

» Plenty of stowage space makes it easy to keep the machine tidy. Access to all vital service points on the machine has been designed to be extremely clear and ergonomic.

Hardtop Gives Excellent Protection

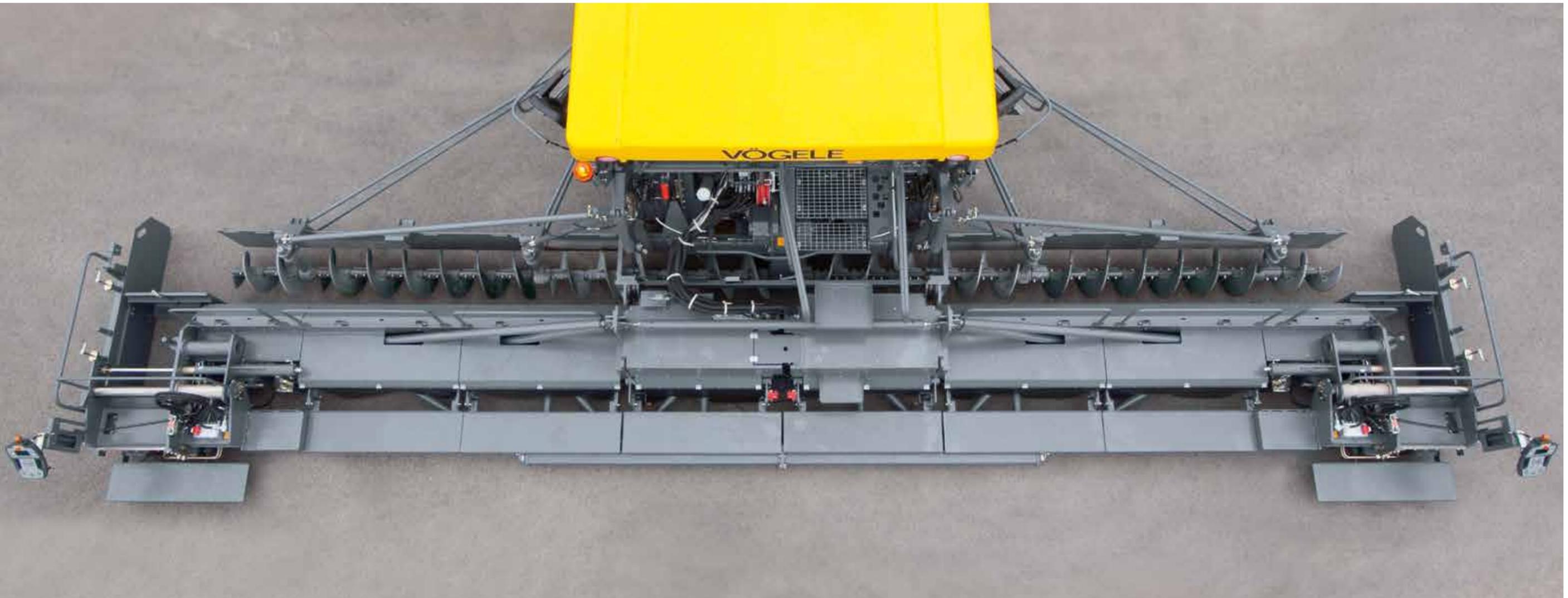
» The modern hardtop made of glass fibre reinforced polymer material shelters the operator whether rain or shine. The hardtop, including exhaust pipe, is raised or lowered quickly and with effortless ease by a manually operated hydraulic pump.

Wide, easily extendable sunshades give the operator optimal protection when his seat is moved out.

» Six bright working lights are integrated into the hardtop. Raising the lights in this way floods the job site with light (Xenon lamps available as an option).



Screed Options



A high-performance tractor unit calls for a screed to match. Every application has its own particular requirements, so that in the end it's up to the user's day-to-day work to decide which screed is the right one.

The SUPER 3000-2 is designed for performance at the highest level in terms of pave width, layer thickness and laydown rates. Combined with the two top models from the VÖGELE range of screeds, it achieves optimum paving quality highly economically.

» The SB 300 Fixed-Width Screed is capable of handling pave widths up to 16m without joints. VÖGELE offer hydraulic extensions (HE) which allow infinite variation in width within a range of 1.5m. With hydraulic extensions fitted, the pave width is variable by 0.75m on either side of the screed.

SB 300 is also available in TP1, TP2 and TVP2 versions, equipped with high compaction systems. High Compaction Technology provides for a perfect build-up of layers, thus creating the basis for a final pavement true to line and level.

» The AB 600 Extending Screed has a basic width of 3m and extends hydraulically up to 6m through its sturdy single-tube telescoping system. Thanks to screed width control at the touch of a button, the screed quickly adjusts to varying pave widths. Through the addition of bolt-on extensions, the screed can be built up to a maximum width of 9.5m.

AB 600 is also available in TP1 and TP2 versions for high compaction. For paving binder course and base course with maximum precompaction, the paver can be combined with the AB 600 Extending Screed in TP2 Plus version.

Electric Screed Heating

- » Homogeneous surface texture thanks to uniform heating of screed plates, tamper bars and pressure bar(s).
- » Even with the engine running at minimum rpm, the time required for the screed to reach operating temperature is reduced substantially thanks to intelligent generator management.
- » With paver functions 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.

The Screed Options for SUPER 3000-2



AB 600

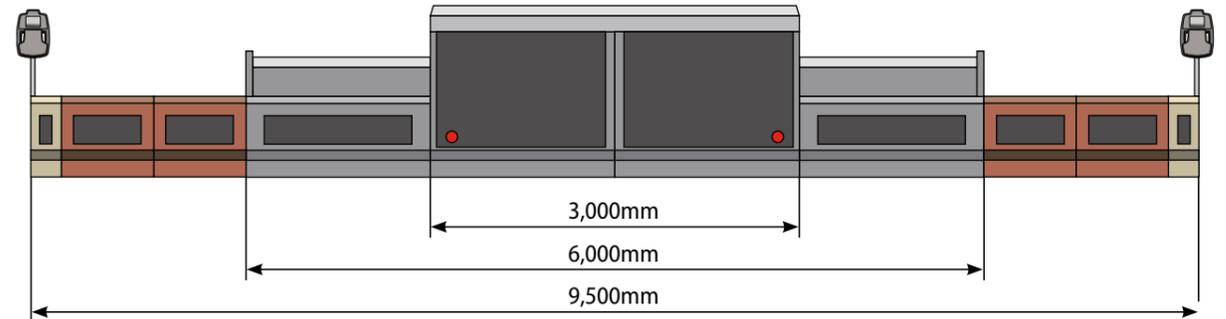
Pave Widths

- » Infinitely variable range from 3m to 6m.
- » Larger widths through the addition of bolt-on extensions up to a maximum of 9.5m.

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

AB 600 TV built up to maximum pave width



SB 300

Pave Widths

- » Basic width 3m. Larger widths through the addition of bolt-on extensions up to a maximum of 16m.
- » Thanks to 75cm hydraulic bolt-on extensions, users of Fixed-Width Screeds can also benefit from the advantages of VÖGELE Extending Screed Technology.

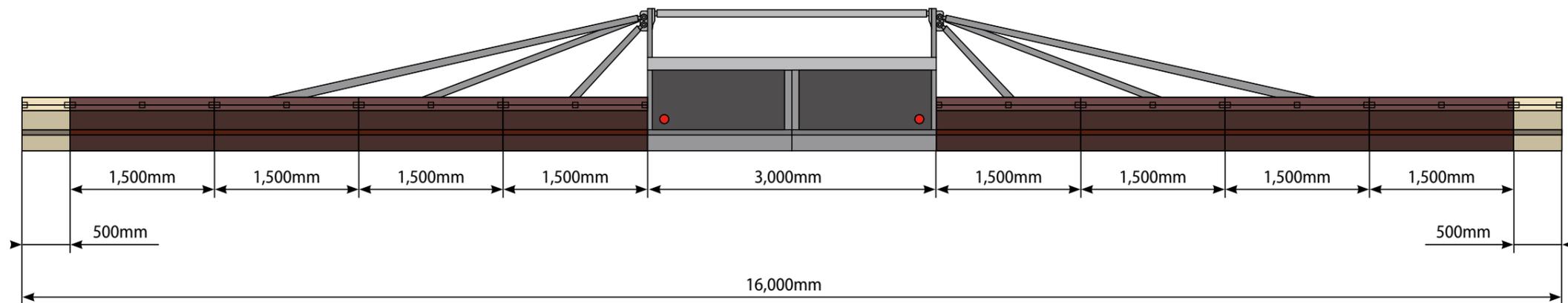
Compacting Systems

- » SB 300 TV with tamper and vibrators
- » SB 300 TP1 with tamper and 1 pressure bar
- » SB 300 TP2 with tamper and 2 pressure bars
- » SB 300 TVP2 with tamper, vibrators and 2 pressure bars

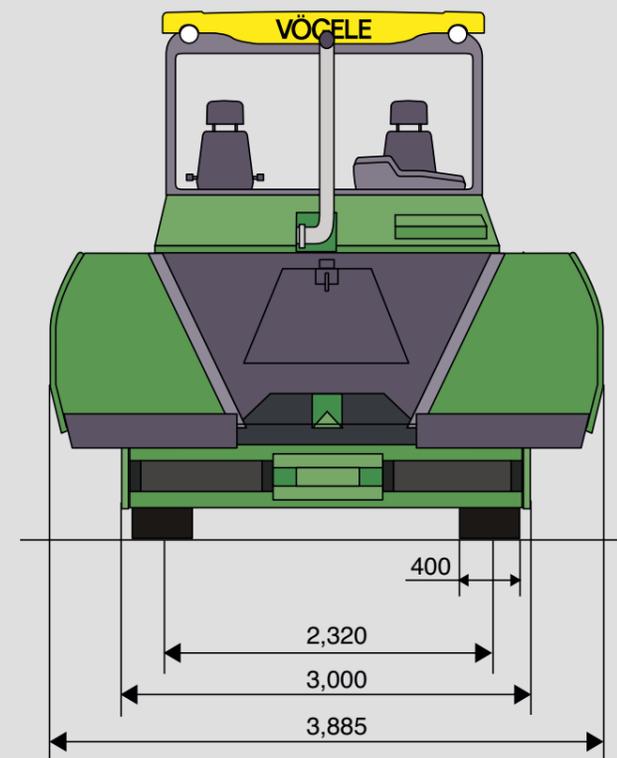
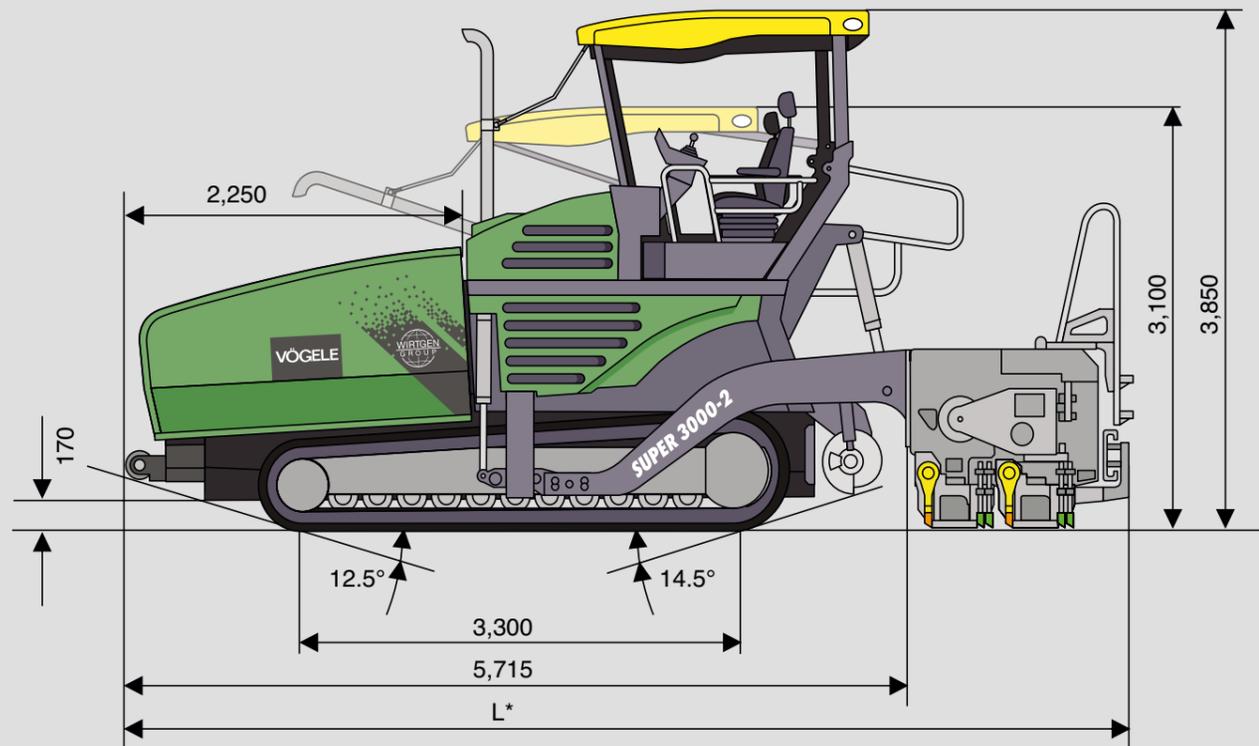
HYDRAULIC EXTENSIONS FOR THE SB 300 FIXED-WIDTH SCREED

- » Turns the fixed screed into a variable one.
- » Saves time, as there is no need to mount and demount bolt-on extensions when it comes to adjusting the pave width within a range of 1.5m.
- » Provides for non-stop paving quality.
- » The hydraulic extensions are available in the versions T (with tamper), TP1 (with tamper and 1 pressure bar) or TP2 (with tamper and 2 pressure bars).
- » Combines the advantages of Fixed-Width Screeds, i.e. large pave widths, with the variability of Extending Screeds.
- » Enhances the field of applications for Fixed-Width Screeds due to infinite variation in width within a range of 1.5m.

SB 300 TV built up to maximum pave width



All the Facts at a Glance



Dimensions in mm
L* = Dependent on Screed Type
(see Specification)



POWER UNIT

Engine:	6-cylinder Deutz diesel engine, liquid-cooled
Type:	TCD 2015 V06 4V
Output:	Nominal: 300kW at 1,800 rpm (according to DIN) ECO Mode: 292kW at 1,500 rpm
Fuel Tank:	600 litres
Electrical System:	24V

MATERIAL HOPPER

Hopper Capacity:	17.5t
Width:	3,885mm
Feed Height:	620mm (centre of material hopper)
Push-Rollers:	oscillating, displaceable forwards by 100mm

UNDERCARRIAGE

Crawler Tracks:	provided with rubber pads
Ground Contact:	3,300mm x 400mm
Suspension:	rigid
Track Tension Adjuster:	Elastomer
Track Rollers:	lifetime grease lubricated
Traction Drive:	hydraulic, separate drive and electronic control provided for each crawler track
Speeds:	Paving: up to 24m/min., infinitely variable Travel: up to 4.5km/h, infinitely variable
Steering:	by alteration of track running speeds
Service Brake:	hydraulic
Parking Brake:	spring-loaded multiple-disk brake, maintenance-free

CONVEYORS AND AUGERS

Conveyors:	2, with replaceable feeder bars, conveyor movement reversible for a short time Drive: hydraulic, separate drive provided for each conveyor Speed: up to 43m/min., infinitely variable (manual or automatic)
Augers:	2, with replaceable auger blades Diameter: 480mm Drive: hydraulic, separate drive provided for each auger Speed: up to 93 rpm, infinitely variable Auger Height: infinitely variable by 20cm, hydraulic
Lubrication:	centralized lubrication system with electrically driven grease pump for conveyor and auger bearings

SCREED OPTIONS

SB 300:	basic width 3m, maximum width (TV) 16m
AB 600:	basic width 3m, infinitely variable range 3m to 6m maximum width (TV/TP1/TP2) 9.5m
Screed Versions:	TV, TP1, TP2, TP2 Plus (AB 600), TVP2 (SB 300)
Layer Thickness:	up to 50cm (SB 300)
Screed Heating:	electric by heating rods
Power Supply:	three-phase A.C. generator

DIMENSIONS AND WEIGHTS

Length:	Tractor unit and screed in transport position - SB 300 TV/TP1/TP2/TVP2: 6.9m - AB 600 TV: 7m - AB 600 TP1/TP2/TP2 Plus: 7.1m
Weights:	Tractor unit with AB 600 screed in TV version - pave widths up to 6m: 28.7t - pave widths up to 9.5m: 32.6t

OPTIONAL EQUIPMENT

Heavy-duty kit.
Hydraulic hopper front.
Sonic sensors to monitor head of mix in front of the screed.
Niveltronic Plus for automated grade and slope control (various sensors available).
Automated steering control.
Washdown system with tank for cleaning agent.
Set of sockets to connect electrical equipment.
Hardtop of glass fibre reinforced polymer material.
Operator's seat, ergonomic design and heated.

For more optional extras please contact your VÖGELE partner.

Key: T = equipped with Tamper P1 = equipped with 1 Pressure Bar SB = Fixed-Width Screed
V = equipped with Vibrators P2 = equipped with 2 Pressure Bars AB = Extending Screed

Technical alterations reserved.



Your VÖGELE QR Code
which leads you directly
to the "SUPER 3000-2"
on our website.



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