

Compact Class

SUPER 1000 **TRACKED PAVER**



Maximum pave width 3.9m
Maximum laydown rate 270 tonnes/h
Transport width 1.85m

CLASSIC
LINE

 www.voegel.info



Powerful, economical and quiet



The SUPER 1000 is a particularly compact paver that is cost-efficient in every respect. A member of the Classic Line, it features a range of functions which is focussed on the essentials required by paving teams for successful operations.

VÖGELE's Classic Line machines are equipped with the ErgoBasic operating system. It was developed on the basis of the proven ErgoPlus 3 operating system, but tailored specifically to the requirements of Classic Line machine users. As with ErgoPlus 3, the design of the paver operator's ErgoBasic console is so clear that all functions can be grasped quickly and operated securely.

The SUPER 1000 can be combined with the AB 340 Extending Screed with vibrators (V version) or with tamper and vibrators (TV version). Thanks to its range of pave widths extending from 0.75m to 3.9m, the paver is ideally suited to the construction or rehabilitation of combined footpaths and cycle paths, farm tracks, minor roads and small areas.

SUPER 1000

Highlights of the SUPER 1000



Tracked Compact Class paver with a wide range of applications and pave widths up to 3.9m

Powerful diesel engine of the latest generation

Simple operation with the innovative and easy-to-grasp ErgoBasic operating concept

Crawler tracks with maximum traction and traction drives in controlled loops

Simple service concept perfectly tailored to the requirements of workshop and service staff

Can be combined with the AB 340 Extending Screed in the V and TV versions

Compact dimensions for paving in very tight spaces



Small size, high efficiency: be it extremely confined job sites outside of town or winding inner-city alleyways, the highly manoeuvrable VÖGELE Compact Class pavers can negotiate tight spots with ease while delivering top performances.



» **The slim paver design**, with no protruding edges and a compact overall length, makes it very easy to work and manoeuvre on tight job sites.

» **The clearance width** of just 1.85m allows the SUPER 1000 to easily get in and out of confined spaces such as narrow alleys. The push-rollers automatically fold up together with the hopper sides.

» **For transport**, the hardtop, made of a glass fibre-reinforced polymer material, and the exhaust pipe can be folded down in just a few swift moves, readying the paver for transport quickly and easily.



Range of applications of the VÖGELE Compact Class

With their combination of compact dimensions and top performance, road pavers in the VÖGELE Compact Class can handle a wide variety of applications.

Whether it is a combined footpath and cycle path, a farm track or minor roads and small areas, the SUPER 1000 is more than up to the task, thanks to its wide range of pave widths from 0.75m to 3.9m and its innovative drive concept.



ASPHALT PAVING ON COMBINED FOOT AND CYCLE PATHS



SURFACING PATHS IN PUBLIC PARKS

The applications illustrated here are typical of the VÖGELE Compact Class.

The drive concept - Efficiency, performance and low consumption



VÖGELE's modern drive concept guarantees full power whenever it is needed and, thanks to its superior technology, this Compact Class paver is exceedingly economical in everyday use.

This is achieved by means of intelligent engine management with ECO mode and a variable-speed fan. These features significantly reduce the SUPER 1000's fuel consumption and noise emissions.

The high-traction crawler tracks on the SUPER 1000 perfectly combine high performance paving with maximum mobility during transport.

Modern drive technology

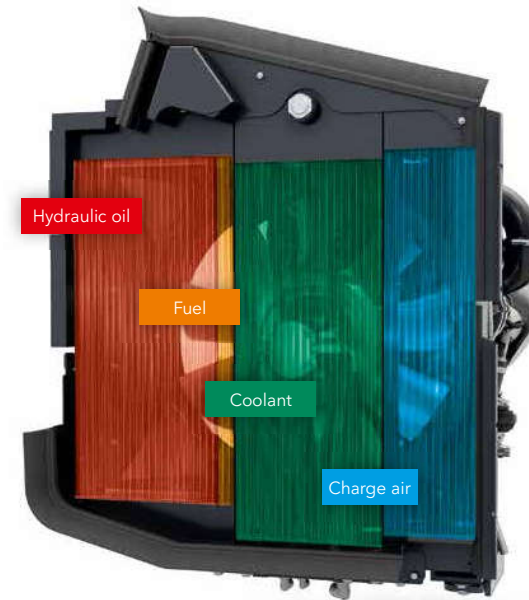
Three main components form the power unit of the SUPER 1000: the large cooler assembly, an advanced, liquid-cooled diesel engine and a splitter gearbox flanged directly to the engine.

The driving force behind this VÖGELE powerhouse is a powerful diesel engine. The 4-cylinder engine delivers 55kW at 2,000rpm. Yet the fuel-saving ECO mode is sufficient for many applications. And even then, the SUPER 1000 still has a full 54kW at its disposal. Moreover, the machine operates particularly quietly when running at just 1,600rpm.

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 always maintained within the optimum range, significantly extending the service life of both the diesel engine and the hydraulic oil. Another advantage is that the machine can be operated without difficulty in all climatic regions around the world.

All hydraulic consumers are directly supplied with hydraulic oil via the splitter gearbox. Hydraulic pumps and valves are centrally located, making them optimally accessible for servicing.



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



- » **Powerful diesel engine** develops 55kW at just 2,000rpm.
- » **ECO mode**, which delivers 54kW at 1,600rpm, is not only perfectly adequate for many applications, it also cuts operating costs and supports super-quiet operation.

- » **A powerful three-phase A.C. generator** with generator management controls output in line with the selected pave width and minimizes the time required to heat the compacting systems up to operating temperature.

Efficient transmission of engine power

Thanks to high-quality separate hydraulic drives, our pavers operate extremely cost-efficiently at a high performance level. With its powerful crawler tracks, the SUPER 1000 has no problem pushing feed vehicles or working at a wide pave width on a soft base.

In terms of traction, too, the VÖGELE drive concept for tracked pavers leaves nothing to be desired.

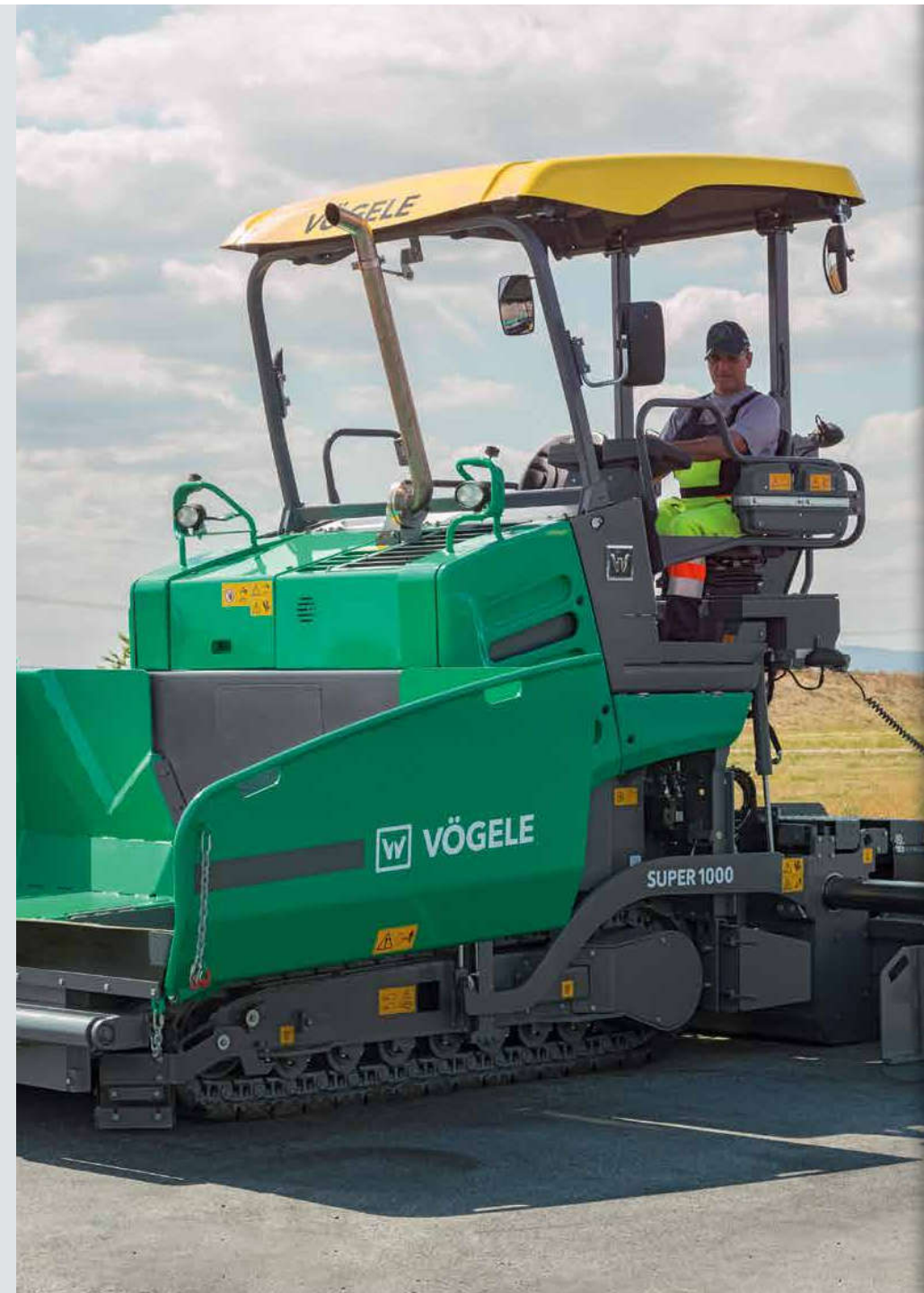


» **The hydraulic systems** for the traction drive, conveyors and augers as well as the compacting systems all operate in separate closed circuits for maximum efficiency.

» **Long crawler tracks** deliver maximum traction thanks to their large footprint. This ensures a constant forward speed even when operating on difficult terrain.

» **Positive tracking when moving straight** and accurate cornering due to electronically controlled separate drives provided for both crawler tracks.

» **Powerful separate drives,** installed in the sprockets of the crawler tracks, translate engine output into pave speed with no loss of power.



SUPER 1000

Top-quality paving thanks to perfect material management

MATERIAL MANAGEMENT



A continuous flow of mix 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.

Easy and clean feeding with mix

Should material feeding become difficult on confined job sites, the large volume of the SUPER 1000's material hopper guarantees that the screed can still be optimally supplied with mix.

Separately folding hydraulic hopper sides ensure smooth feeding with mix, even when paving across asymmetrical widths and along boundaries.



» **Oscillating push-rollers** for convenient and shock-free docking also of large feed vehicles.

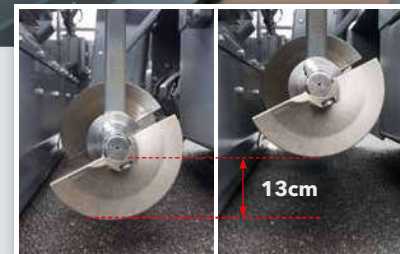
» **The large material hopper** has a capacity of 10t so that a sufficient quantity of mix is available for paving at all times, even in situations where feeding is difficult, such as when paving under bridges.

» **Separately folding hydraulic hopper sides** for smooth feeding with mix, paving along boundaries and a targeted mix supply even when paving across asymmetrical widths.

Perfect conveying and spreading of mix, just like the big pavers

The conveyance and even spreading of mix in front of the screed are optimal thanks to the large conveyor tunnel, proportional control of conveyors and powerful augers.

What is more, the height-adjustable augers and folding limiting plates for the auger tunnel allow the paver to be repositioned without a need for conversion, a benefit that saves time and money.



The height of the augers is infinitely variable by 13cm for uniform spreading of mix across the entire pave width.

» **The amply dimensioned conveyor tunnel** and powerful, separate hydraulic drives for conveyors and augers support laydown rates of up to 270t/h, which are extraordinarily high for a paver in this class.

» **Separate drives and controls** are installed for each conveyor and auger. When operating in Automatic mode, conveyors and augers are subject to continual monitoring. Proportional control provides for a constant head of mix in front of the screed.

SUPER 1000

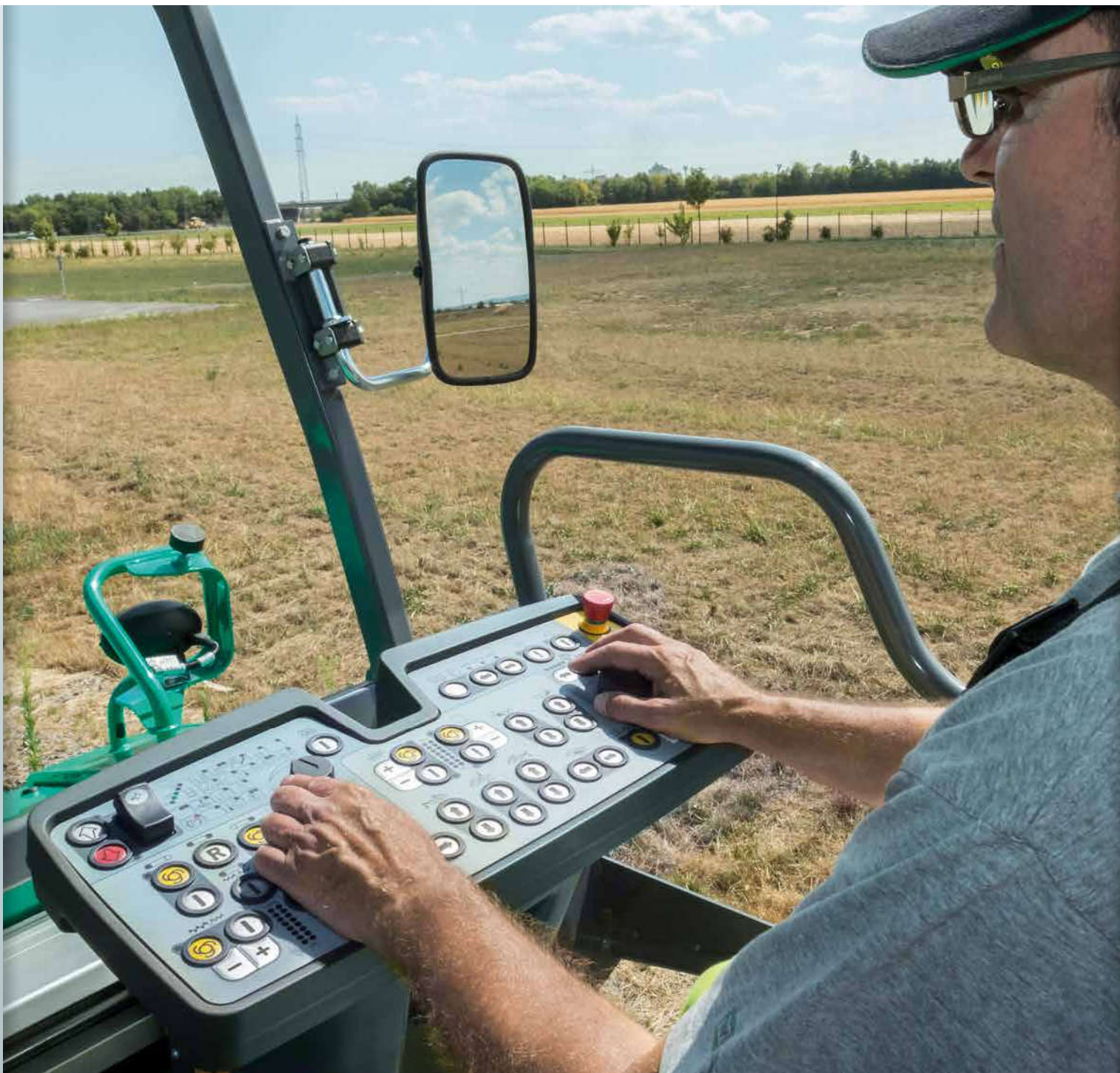
The new **ErgoBasic** operating concept



The **ErgoBasic operating concept** was developed on the basis of the proven ErgoPlus operating system which is installed in our Premium Line pavers, but was tailored specifically to the needs and requirements of VÖGELE Classic Line users.

The goal was to develop an operating system that can be operated just as quickly, accurately and intuitively as the ErgoPlus 3 system on the "Dash 3" machines.

This makes VÖGELE the only manufacturer to offer a standardized operating concept for all paver classes.



ERGOBASIC

The paver operator's
ErgoBasic console

“Full control for the machine operator!”

The paver operator's ErgoBasic console

Everything at a glance: the functions are arranged in a clear, logical and practical layout that has clearly been inspired by the ErgoPlus operating console. The type of controls and the symbols used are all in line with those on an ErgoPlus console. Given the limited number of functions, there is no need for a display.

The status of all settings is indicated as a percentage on LED strips immediately next to the relevant functions.

Additional LEDs indicate the set speeds of the augers and the compacting systems as well as the fill level of the diesel tank.

Function and status indicators

The function and status indicators mean that the operator always has full control over his machine. He can, for instance, read the fill level of the fuel tank directly and identify whether there are any functional faults.



Choice of operating modes for the paver

All the main paving and machine functions can be controlled directly by individual push buttons on the paver operator's ErgoBasic console. The paver changes between operating modes at the push of a button in the following order: "Pave", "Positioning", "Job Site" and "Neutral". An LED indicates which mode is selected. On leaving "Pave" mode, the memory function stores all the most recent settings. After moving on the job site, the previously used paving parameters are instantly restored.



Speed of the augers

In Automatic mode, the plus/minus buttons can be used to adjust the maximum auger speed separately for the right and left sides to suit the pave width, without the use of sonic sensors. The value, which is set in percent, is indicated by the LEDs.



Safe operation during the night

The paver operator's ErgoBasic console features glow-in-the-dark backlighting so that the paver operator can also work safely on night-time jobs.



Compacting effort

The speed of the compacting systems can be set directly on the paver operator's ErgoBasic console. The LED strips from 0 to 100% indicate the speed settings for the tamper and vibrator, enabling them to be adjusted immediately if required.



Steering at a preset angle

The machine is steered by means of an easy-grip rotary controller which enables the driver to manoeuvre the machine easily and precisely even in the tightest spots. For long bends with a constant radius, the desired steering angle can be provided by using arrow keys. The paver then automatically follows the set path until the function is deactivated, allowing the driver to monitor the paving process undisturbed.



No-load function

The no-load function is provided for the warm-up or cleaning of conveyors, augers or a drum.



The ErgoBasic remote control unit for the screed

The **safe and easy handling** of all screed functions is a key factor in high-quality pavement construction. That's why an ErgoBasic remote control unit for the screed was developed specifically for the new Classic Line pavers.

Its keypad is laid out logically according to the functional processes. Designed for robustness, it is well able to withstand tough job-site conditions.

Operation is easy to understand and can be learned intuitively in a very short space of time, not least because the symbols used in the proven ErgoPlus operating system are found here, too.

The ErgoBasic remote control unit for the screed allows all paving-related functions to be set quickly and easily. This includes direct access to the material handling systems and the sonic sensors for the augers.

All the main paving functions can be controlled using the two handy remote control units for the screed. Simple, language-neutral symbols allow the machine to be operated intuitively.



1 // Conveyor setting
automatic/manual

2 // Horn

3 // Auger setting
automatic/manual/reverse

4 // Screed floating on/off

5 // Adjustment of screed width
one side

6 // Adjustment of screed tow point ram



The operator's Niveltronic Basic console

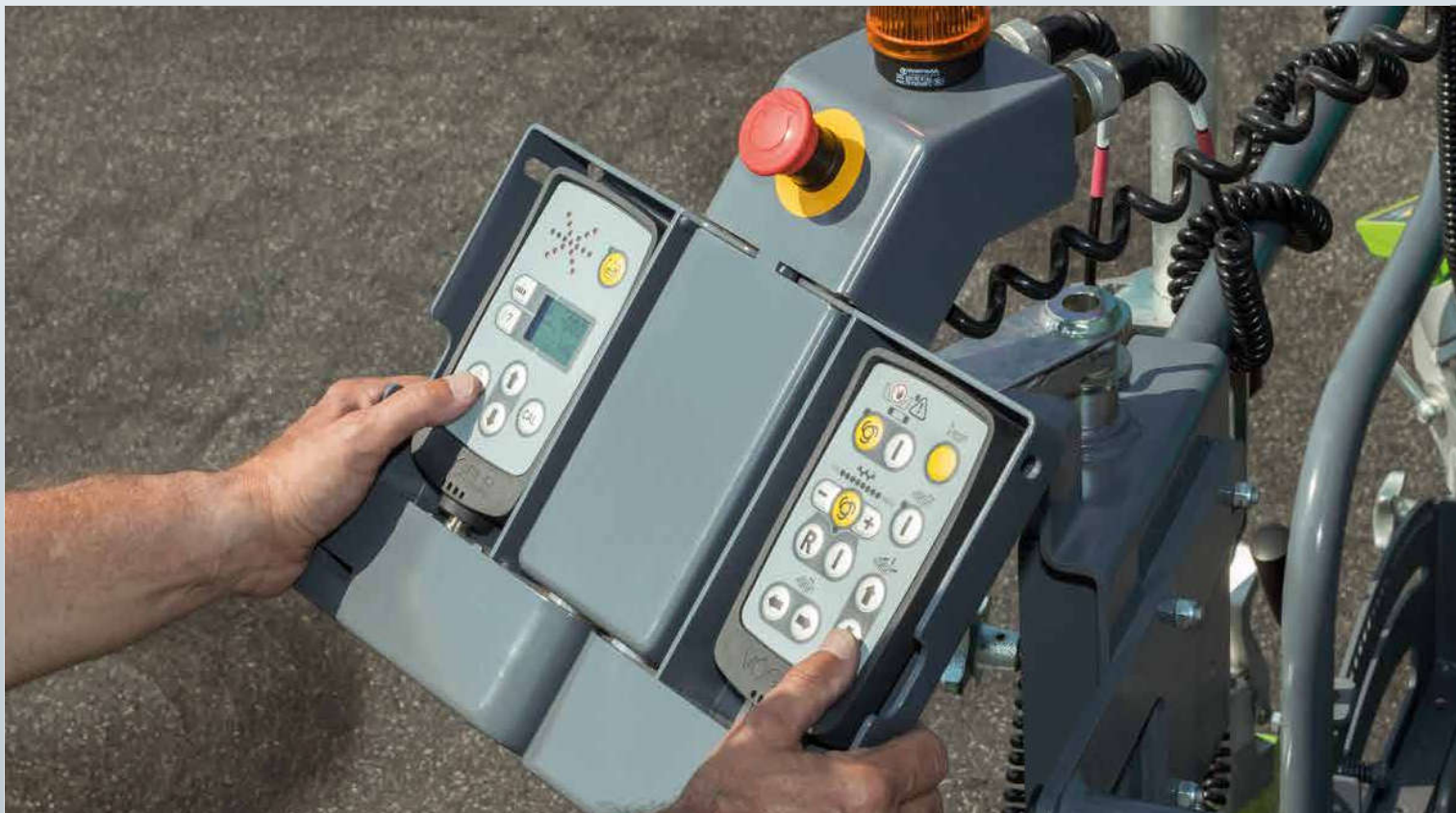
VÖGELE have also developed a System for Automated Grade and Slope Control to match the ErgoBasic operating concept: the Niveltronic Basic. It is completely integrated into the machine control system and therefore perfectly adapted to the respective paver model. Another outstanding aspect of Niveltronic Basic is its particularly simple and intuitive handling, a feature which makes it easy even for less experienced operators to learn their way around the system. This creates ideal conditions for the Classic Line pavers to work true to line and level on any base.

Each side of the screed is operated by a separate compact and exceedingly robust Niveltronic Basic remote control unit.

A variety of sensor types is available for Niveltronic Basic, in keeping with the machine's large and varied range of uses. The selection extends from mechanical sensors to non-contacting sonic sensors. The System for Automated Grade and Slope Control can simultaneously be connected to two grade sensors and one slope sensor. The type of sensor used is detected automatically.

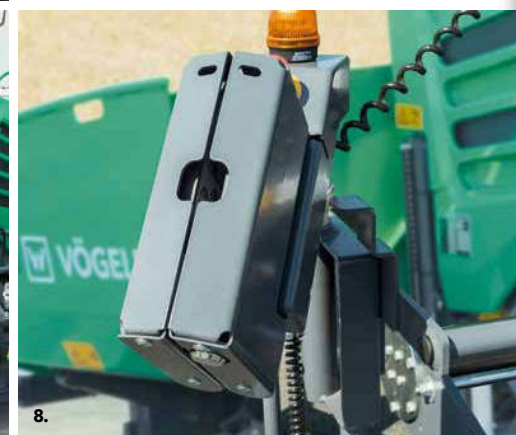
The kind of reference – ground, tensioned wire or transverse slope – can be easily set on the remote control unit.

The remote control units cover all the functions required for high-precision grade and slope control. Clear symbols support intuitive machine operation.



- 1 // **Deviation** from specified values
- 2 // **Niveltronic Basic** on/off
- 3 // **Setting** for sensor sensitivity
- 4 // **Selection of scanning mode**
for the sensor (ground/tensioned wire/transverse slope)
- 5 // **Quick set-up**
- 6 // **Setting** of the specified value
- 7 // **Sensor calibration**





Paver operator's ErgoBasic platform

1. The comfortable paver operator's platform

gives an unobstructed view of all crucial areas on the paver such as material hopper, steering guide or screed. The paver operator is thus ideally positioned to monitor the material feeding process right from his seat.

2. Working comfortably

The operating console can be shifted across the entire working width so that operators can work comfortably and in an ergonomic position on either side of the machine.

3. A place for everything and everything in its place

The paver operator's platform is streamlined and well organized, offering the paver operator a professional workplace. The paver operator's console can be protected by a shatter-proof cover to prevent wilful damage.

4. Hardtop provides excellent protection

The modern hardtop, made of a glass fibre-reinforced polymer material, protects the operator. It can easily be collapsed to quickly prepare the paver for transport.

5. Cost-efficient and service-friendly design

The paver operator has convenient access to all service points on the machine. All hydraulic pumps connected to the transfer gearbox are extremely easy to service thanks to their clear arrangement and easy accessibility. Durable components made of highly wear-resistant materials for a long service life minimize machine downtimes.

6. Safe and comfortable ascent

The walkway and comfortable middle ascent on the screed ensure safe and convenient access to the paver operator's platform.

7. Safe and simple operation of all screed functions

All paving-related functions can be set quickly and easily on the ErgoBasic remote control unit for the screed.

8. Protection against theft and vandalism

Once work has been completed, the remote control unit for the screed can be collapsed and secured.



AB 340 Extending Screed

The **AB 340 Extending Screed** is optionally available for the SUPER 1000 with vibrators only (V version) or with tamper and vibrators (TV version). With this screed, rehabilitation jobs can be carried out very quickly and easily without ever compromising on quality.

The **unique VÖGELE** single-tube telescoping system enables the screed width to be adjusted up to 3.4m with millimetre precision and zero slack.

A **typical VÖGELE** feature also found in the AB 340 Extending Screed is its powerful electric heating system. This modern heating system quickly and uniformly heats the screed up to operating temperature, ensuring a smooth surface texture.

Excellent insulation of the screed plates reduces loss of heat to a minimum and ensures that heating the screed only takes a short time, even with the engine running at minimum rpm.

The SUPER 1000 screed system

AB 340

Pave widths

- » Infinitely variable range from 1.8m to 3.4m
- » Maximum pave width with bolt-on extensions:
 - » 3.9m (2 x 25cm)
- » Minimum pave width of 0.75m with the system for pave width reduction

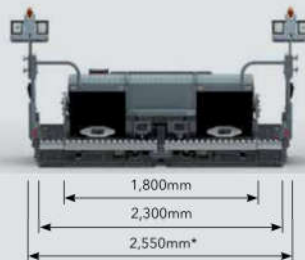
Compacting systems

- » AB 340 V Extending Screed with vibrators
- » AB 340 TV Extending Screed with tamper and vibrators



AB 340

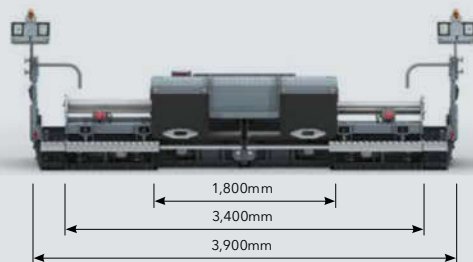
AB 340 Extending Screed with 25cm bolt-on extensions



Easy transport.
*Even with bolt-on extensions and side plates fitted, the transport dimensions do not exceed 2.55m.

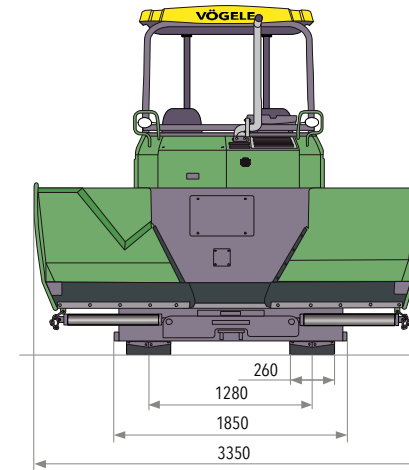
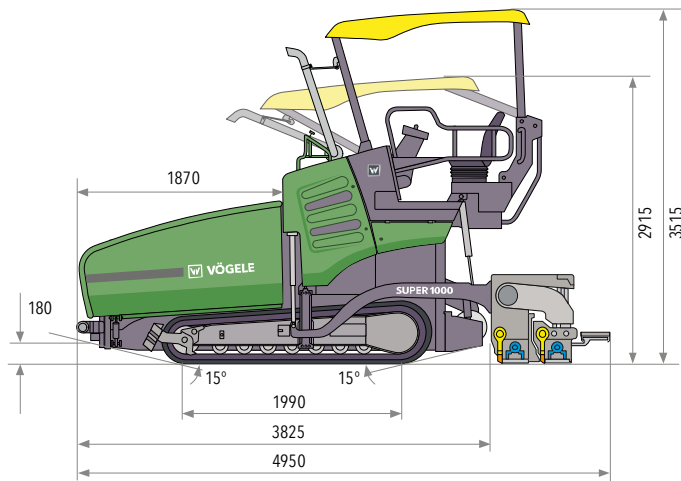
AB 340

Built up to maximum pave width



All the facts at a glance

Dimensions in mm



| Power unit | | Undercarriage | |
|------------------------------------|-------------------------------------|-------------------------------------|--|
| Engine | 4-cylinder diesel engine | Crawler tracks | with rubber pads |
| Manufacturer | Deutz | Ground contact | 1,990mm x 260mm |
| Type | TCD 3.6 L4 | Track tension adjuster | spring assembly |
| Output | | Lubrication of track rollers | lifetime |
| Nominal | 55kW at 2,000rpm (according to DIN) | Traction drive | Electronically controlled separate hydraulic drive provided for each crawler track |
| ECO mode | 54kW at 1,600rpm | Speeds | |
| Exhaust emissions standards | EU Stage 3a, US EPA Tier 3 | Paving | up to 18m/min., infinitely variable |
| Fuel tank | 110 litres | Transport | up to 4.5km/h, infinitely variable |
| | | Material hopper | |
| | | Hopper capacity | 10t |
| | | Width | 3,350mm |
| | | Feed height | 580mm (bottom of receiving hopper) |
| | | Push-rollers | oscillating |
| | | Position | can be displaced forwards by 80mm |

| Conveyors and augers | | Screed | |
|----------------------|---|---|---|
| Conveyors | 2, with replaceable feeder bars, direction of conveyor temporarily reversible | AB 340 | basic width 1.8 to 3.4m |
| Drive | separate hydraulic drive provided for each conveyor | | maximum width 3.9m |
| Speed | up to 21 m/min., infinitely variable (manual or automatic) | | minimum width 0.75m |
| Augers | 2, with replaceable auger blades, auger rotation reversible | | reduction in width by cut-off shoes 2x52.5cm compacting systems V, TV |
| Diameter | 300mm | Layer thickness | up to 15cm |
| Drive | separate hydraulic drive provided for each auger | Screed heating | electric by heating rods |
| Speed | up to 85rpm, infinitely variable (manual or automatic) | Power supply | three-phase A.C. generator |
| Auger height | | Dimensions (transport) and weights | |
| Standard | infinitely variable by 13cm, mechanical | Length | paver with screed 4.95m |
| Option | infinitely variable by 13cm, hydraulic | Weights | paver with screed |
| | | AB 340 V | 10,050kg |
| | | AB 340 TV | 10,250kg |

Key: AB = Extending Screed V = with vibrators
TV = with tamper and vibrators

Subject to technical changes.



Your VÖGELE QR Code
takes you to the
SUPER 1000 on our
homepage.



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