Tracked Paver

**SUPER 1800-2 L**

Universal Class

Maximum Pave Width 9m
Maximum Laydown Rate 700 tonnes/h
Transport Width 2.55m
Maximum layer thickness 30cm

Pave speed up to 24m/min.

Transport width 2.55m

Pave speed up to 24m/min.

Laydown rate up to 700 tonnes/h

Maximum pave width 9m

Powerful Perkins engine rated at 129.6kW

Comes with ErgoPlus, the concept for easy paver handling

Hardtop with wide sunshades

Highlights
Innovative Tracked Paver

The VÖGELE SUPER 1800 class is legendary. No other asphalt paver enjoys greater popularity amongst professional road building contractors the world over. SUPER 1800-2 L, no doubt, is one of the most compact-sized and powerful models around in its performance class covering a wide range of applications.

With a maximum pave width of 9m and a machine length of 6.4m, the VÖGELE paver handles motorway projects, rural roads or the surfacing of large areas with the same high perfection as it copes with confined spaces when tackling roundabouts.

Installed in the SUPER 1800-2 L is an engine developing 129.6kW to perfectly serve the paver's capabilities. The machine stands out through high performance and economical operating efficiency alike. Above all when working in ECO Mode, the paver features remarkably quiet operation and low fuel consumption.

Thanks to ErgoPlus, the VÖGELE concept for paver handling, operators have never had it so good. ErgoPlus offers a maximum of clarity, simplicity and ease of operation. The operator enjoys a modern workplace of ergonomic design leaving nothing to be desired. This way, the SUPER 1800-2 L sets new standards in terms of paver performance, economical operating efficiency and user-friendliness.
The SUPER 1800-2 L is powered by a modern, liquid-cooled Perkins engine rated at 129.6kW. The speed ranges MIN, ECO and MAX are available which select conveniently at the push of a button. ECO Mode is sufficient for 70 to 80% of all paving jobs. This mode reduces fuel consumption, wear and noise emissions.

Energy is also saved due to the short time required for heating the screed's compacting systems to operating temperature, even with the engine running at minimum rpm. The right temperature, however, is not important for the screed alone. In all climatic zones the world over, the large cooler assembly and innovative air routing provide for optimal temperature levels of engine coolant, hydraulic oil and charge air, while at the same time keeping noise emissions low. With the SUPER 1800-2 L technology and eco-friendliness go hand-in-hand.

Efficient and Eco-Friendly Drive Concept

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Different speed ranges are available which select conveniently at the push of a button (MIN, ECO, MAX).

- Powerful Perkins engine developing 129.6kW at just 2,000 rpm. The modern, low-noise engine complies with European exhaust emissions standard 3a and US standard EPA Tier 3.

- A constant pave speed is one of the crucial factors when it comes to achieving excellent pavement quality. Electronic Engine Management, installed in the SUPER 1800-2 L, ensures a consistent engine output to match the demand.

- Powerful three-phase A.C. generator with Generator Management controlling generator output in compliance with the pave width. Heating the screed's compacting systems to operating temperature takes a short time only.

- Thanks to a large cooler assembly with innovative air routing, perfect cooling of engine cooling liquid, hydraulic oil and charge air. Noise emission is very low.

- A constantly high cooling capacity provides for ideal temperatures inside the hydraulic system and top performance of all drive units even when working under full load, in all climatic zones the world over.

- For hydraulic functions, powerful separate drives are installed operating in closed circuits, thus delivering highest outputs.
High Precision on Tracks

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 get on well at a constant speed even when operating on difficult terrain.

Positive tracking when moving straight and accurate turning of radii due to separate drive and electronic control provided for each crawler track.

Even difficult terrain is no problem for the SUPER 1800-2 L thanks to its powerful crawler tracks and accurate steering. In terms of traction, too, the VÖGELE drive concept leaves nothing to be desired.

Large Material Hopper, Easy Feed with Mix

The material hopper and chassis of the SUPER 1800-2 L have been specially adapted to the feed vehicles which are customary in China. Any mix lorry can dock onto the SUPER 1800-2 L without difficulty, thanks to its great length and low feed height. What’s more, the wide, oscillating push-rollers can be moved 100mm forward for 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.

Large oscillating push-rollers can be moved 100mm 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.
Prime Paving Quality
Due to Perfect Material Handling

Proportional control and continuous monitoring provided for conveyors and augers guarantee a constant head of mix in front of the screed in conformity with the requirement.

The height of the augers, complete with bearing boxes and limiting plates for the auger tunnel, is infinitely variable by up to 14cm across the entire pave width. This results in optimal spreading of mix in front of the screed, even when paving thin layers.

Large diameter of auger blades (420mm) for excellent spreading of mix when paving in large widths.

An auger tunnel, easily variable in depth, provides for an optimal flow of mix when paving thick layers.

14cm

Due to perfect spreading of mix, the SUPER 1800-2 L provides for an optimal head of material in front of the screed in every paving situation. Powerful, separate hydraulic drives for conveyors and augers are installed achieving laydown rates up to 700 tonnes/h.

Easy Maintenance, Long Intervals Between Maintenance Services

The well-thought-out maintenance and service concept is perfectly geared to the requirements of the workshop and service staff.

A wide engine hood and large hinged panels give convenient access to service points on the machine.

All hydraulic pumps attached to the transfer gearbox. Their clear arrangement and easy access provides for service-friendliness at the highest level.

Centralized lubrication system installed to automatically supply required amounts of grease to bearings of conveyors and augers.

Sturdy components of highly wear-resistant materials for long service lives minimize downtime.

A standardized service concept for all VÖGELE pavers simplifies maintenance and cuts expenditure on training.
**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.
The Paver Operator’s **ErgoPlus** Console

*Full Control for the Machine Operator*
The Paver Operator’s ErgoPlus Console

Clear and Logical Arrangement of Controls

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.

- 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.

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

- 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.

- 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.

- 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.

- Display of the Paver Operator’s Control: The screen display in the control module allows to check the status of the paver at a glance. The operator sees all important technical information at a glance, such as engine rpm, conveyors’ or augers’ speed, tamper or vibrators’ speed. The screen display also shows messages and error messages as well as notifications such as fuel consumption or service hours.

- Display of Engine Speed Ranges: The engine has a choice of 3 speeds, MIN, ECO and MAX. To switch speeds 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.

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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 willful 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 for All Paving Applications

A powerful tractor unit calls for a screed to match. Each application has its particular requirements, so that in the end it’s up to the users’ everyday tasks to decide which screed is the right one. For SUPER 1800-2 L, we offer a number of screed options and versions as far as equipment with compacting systems is concerned.

- **VÖGELE Extending Screeds** feature a high degree of variability. The AB 600 comes with a sturdy single-tube telescoping system. Working with highest precision, it offers quick screed width control accurate to the millimetre.

  A Screed Assist feature to be set electronically and separately for the left and right-hand sides, is offered as an optional extra. Screed Assist supports the paving team when working under difficult conditions.

  SUPER 1800-2 L can also be combined with the SB 250 Fixed-Width Screed. The screed easily builds up to a maximum width of 9m using bolt-on extensions.

- **All screens are available in TV version (with tamper and vibrators) for standard compaction or in TP1 (with tamper and 1 pressure bar) for the unique VÖGELE high compaction.**

- **Transverse Pavement Profiles**

  Positive and negative crown can be paved with all screed types.

  The AB 600’s extending units adjustable in height and spindles provided on either side allow the screed to be set up to a variety of additional special profiles.

- **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.**

- **With paver functions set to automatic, the Generator Management activates Alternating Mode for screed heating (heats the screed alternately to left and right), a feature which is easy on the engine and reduces fuel consumption considerably.**
The Screed Options for SUPER 1800-2 L

**AB 600**

**Pave Widths**
- Infinitely variable range from 3m to 6m.
- Larger widths by addition of bolt-on extensions up to a maximum of 9m.

**Compacting Systems**
- AB 600 TV with tamper and vibrators
- AB 600 TP1 with tamper and 1 pressure bar

**SB 250**

**Pave Widths**
- Basic width 2.5m. Larger widths by addition of bolt-on extensions up to a maximum of 9m.
- Option: Thanks to 75cm hydraulic bolt-on extensions, pave width is infinitely variable within a range of 1.5m.

**Compacting Systems**
- SB 250 TV with tamper and vibrators
- SB 250 TP1 with tamper and 1 pressure bar
**POWER UNIT**

- **Engine:** 6-cylinder Perkins diesel engine, liquid-cooled
- **Output:** Nominal: 129.6kW at 2,000 rpm (according to DIN)
- **Eco Mode:** 125kW at 1,800 rpm
- **Fuel Tank:** 300 litres
- **Electrical System:** 24 V

**UNDERCARRIAGE**

- **Crawler Tracks:** provided with rubber pads
- **Suspension:** rigid
- **Track Tension Adjuster:** spring assembly
- **Track Rollers:** lifetime grease lubricated
- **Traction Drive:** separate hydraulic 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

**MATERIAL HOPPER**

- **Hopper Capacity:** 15 tonnes
- **Width:** 3,265mm
- **Feed Height:** 530mm (bottom of material hopper)
- **Push Rollers:** oscillating, displaceable forwards by 100mm

**CONVEYORS AND AUGERS**

- **Conveyors:** 2, with replaceable feeder bars, conveyor movement reversible for a short time
- **Augers:** 2, with exchangeable auger blades, auger rotation reversible

**SCREED OPTIONS**

- **SB 250:** basic width 2.5m, maximum width (TV/TP1): 9m
- **AB 600:** basic width 3m, infinitely variable width 3m to 6m, maximum width (TV/TP1): 9m

**DIMENSIONS AND WEIGHTS**

- **Length:** Tractor Unit and Screed in Transport Position:
  - SB 250 TV/TP1: 6.4m
  - AB 600 TV: 6.4m
  - AB 600 TP1: 6.3m
- **Weights:** Tractor Unit with AB 600 Screed in TV Version:
  - Pave Widths up to 6m: 20.4 tonnes
  - Pave Widths up to 9m: 21.8 tonnes

**OPTIONAL EQUIPMENT**

- Hardtop of glass fibre reinforced material.
- Novotrinsic Plus for Automated Grade and Slope Control.
- Big MultiPlex Ski.
- Sonic auger sensors to monitor head of mix in front of the screed.

For more optional extras please contact your VÖGELE partner.

**Super 1800-2 L**

- **Hopper Capacity:** 15 tonnes
- **Width:** 3,265mm
- **Feed Height:** 530mm (bottom of material hopper)
- **Push Rollers:** oscillating, displaceable forwards by 100mm

**Dimensions in mm**

- **L**: Dependent on Screed Type (see Specification)

**Key:**
- **T**: equipped with Tamper
- **P**: equipped with Pressure Bar
- **EB**: fixed-width Screed

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