A WIRTGEN GROUP COMPANY

VÖGELE

Mini Class

SUPER 800i

TRACKED PAVER



CLASSIC LINE

Pave widths 0.5–3.5 m
Maximum laydown rate 300 t/h
Clearance width 1.4 m

www.voegele.info



The Mini Class paver with the maximum range of applications



The SUPER 800i is an extremely compact small paver which can tackle a wide variety of applications. Whether working on narrow farm tracks, close to walls and edges, between tram lines or in buildings, it is in confined spaces that the SUPER 800i really shows what it's capable of.

When it comes to technology, the SUPER 800i can certainly keep pace with the large "Dash 3" pavers.

The powerful material conveying system is as sophisticated as the ErgoBasic operating concept.

Equipped with the AB 200 Extending Screed or the AB 220 Extending Screed with tamper and vibrators, this small paver achieves optimum precompaction values.

Last but by no means least, the excellent price/performance ratio of this small paver is a convincing feature which makes it the ideal choice in towns and cities as well as for landscaping applications. As such, it is of particular interest to many local authority contractors.

The highlights of the SUPER 800i

Wide range of paving applications from 0.5–3.5 m for a large number of paving projects

The ideal option for highly confined job sites thanks to its compact dimensions

Several feed options with the asymmetrical material hopper

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

Powerful and cost-efficient thanks to the 55.4 kW diesel engine and ECO mode

Positive tracking and precise steering delivered by traction drives in closed loops

High precompaction with the AB 200 TV or AB 220 TV Extending Screeds (with tamper and vibrators)

Compact, light and manœuvrable

Whenever a job site is particularly cramped, narrow or height-restricted is when the SUPER 800i comes into its own. Its dimensions make it the ideal candidate for landscaping applications as well as for surfacing car parks, farm tracks, cycle paths or footpaths.

The Mini Class paver is also a popular choice for building motorway central reservations or working in underground car parks and height-restricted factory halls etc. In all these situations, its small dimensions, great manœuvrability and high power are key factors in its efficiency.

This highly evolved paver is perfectly equipped to handle even the most difficult conditions. The asymmetrical material hopper, for instance, allows the Mini Class paver to be fed with mix easily in extremely confined spaces.



SURFACING PATHS IN PUBLIC PARKS



INDOOR APPLICATIONS (FACTORY HALLS ETC.)



CONSTRUCTING FARM TRACKS



SURFACING LARGE AREAS



SURFACING CYCLE PATHS OR FOOTPATHS



BACKFILLING TRENCHES



PAVING WORK IN SPORTS FACILITIES



SURFACING CENTRAL RESERVATIONS ON MOTORWAYS



PAVING ASPHALT ON DAMS

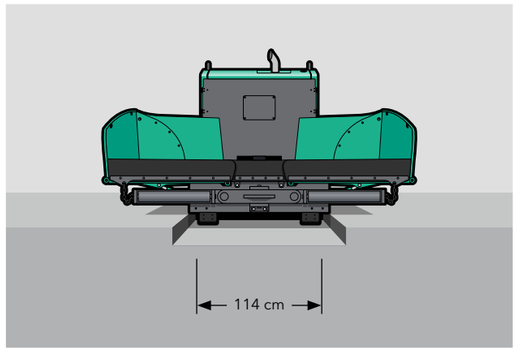


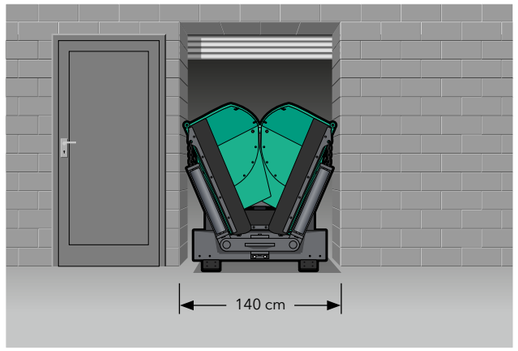
BUILDING THE BASE FOR PAVING SETTS

The applications illustrated here are typical for the VÖGELE Mini Class.
Photographs may illustrate the predecessor model.

Precision in small spaces





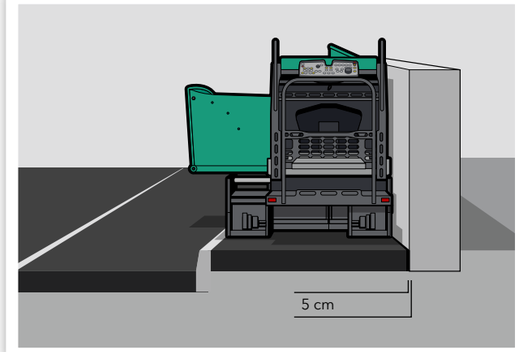


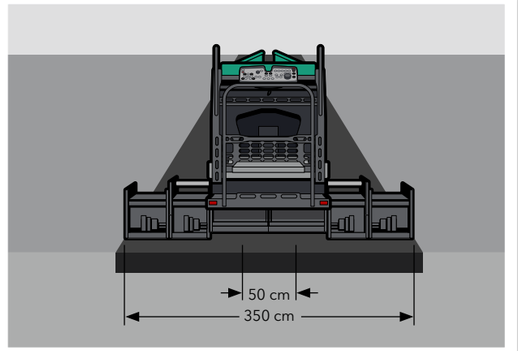
» **With an external track gauge** of just 1.14 m and the AB 200 Extending Screed with its basic width of just 1.1 m, the tracked paver is suitable for paving between tramway rails and in milled strips.

» **The small clearance width** of 1.4 m means that even narrow entrances or gates are no longer an obstacle. The paver can pass through tight entrances and is capable of surfacing traffic areas in buildings such as underground car parks without any problem.

Paving as close as 5 cm from boundaries







» **The sophisticated paver design** allows machine-based paving as close as 5 cm from boundaries.

» **The overall height** of less than 2 m allows paving in height-restricted spaces and under canopies.

» **The great range of pave widths** – from 0.5 to 3.5 m – means it can be used in a wide variety of applications, ensuring high utilization of the machine.

Perfect material management

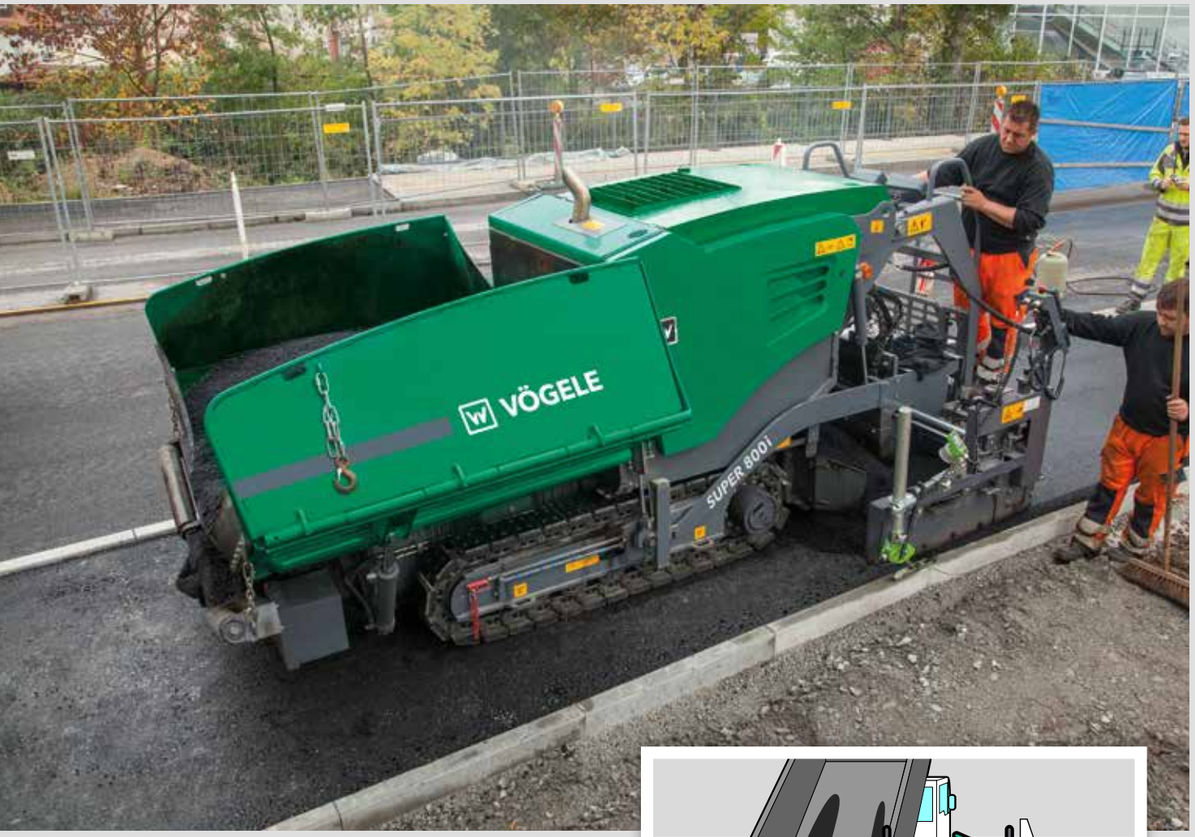
Several feeding options are particularly important when space is narrow and confined. That is exactly what the large material hopper of the SUPER 800i was designed for. It can be conveniently supplied with material by truck or wheeled loader, depending on how much space is available.

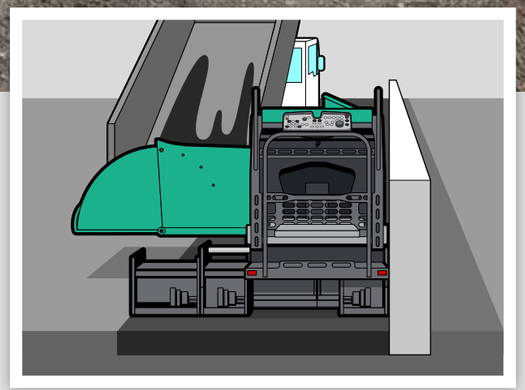
The powerful conveyor, the large conveyor tunnel and the height-adjustable augers ensure that material flows to the screed accurately and in just the quantity required.

Several feeding options

The large material hopper with separately folding sides is designed so that the machine can always be supplied with paving material in the best, most cost-effective way. Whether the mix is supplied from the front by truck or from the side by a wheeled loader, the hopper sides can always be positioned as required.

The optional asymmetrical hopper (on the left) allows the paver to be supplied with material by truck even if the feed vehicle is unable to dock centrally in front of the machine, as is the case when paving along walls or other boundaries, for instance.





On the asymmetrical material hopper, the left side can be fully folded down hydraulically. Combined with the possibility of adjusting the push-rollers to the left, this makes it easier for material to be supplied by truck when paving along walls or other boundaries.

Optimal flow of mix

The pavers of the Mini Class come with a powerful material handling system. The large material hopper holds an ample supply of mix, while the wide conveyor tunnel permits a high material throughput.

The large auger blades ensure that the material is spread evenly in front of the screed.



Large material hopper

With a capacity of 5.8 t, the material hopper of the small paver is designed to guarantee a controlled supply of mix, preventing any bottlenecks from occurring.



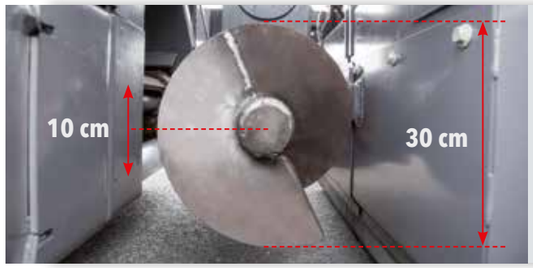
Optimum conveyor drive

The arrangement of the conveyor drive at the rear of the machine makes for optimum power transmission, ensuring a high conveying capacity while minimizing wear of paver components. The conveyor is reversible, preventing any spills of material when repositioning the paver on the job site.



Wide conveyor tunnel

The conveyor tunnel is wide enough to guarantee a high material throughput of up to 300 t/h.



Large auger blades

With a diameter of 300 mm, the large auger blades ensure that the material is spread homogeneously. The height of the augers is infinitely variable by 100 mm, even hydraulically on request.

The 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 it was tailored specifically to the needs and requirements of Mini Class paver users.

The aim was to develop an operating system for the small machines that is just as quick, precise and intuitive to operate as the system for the large machines.

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

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 of an ErgoPlus console but have been tailored to the functions of a small paver.

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.

LEDs also indicate the set speeds for the augers and the compacting systems as well as the fill level of the fuel tank.



Function and status indicators

The function and status indicators mean that the operator always has full control over his machine, even without a display. 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 switches 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 last settings, which means that the paving parameters last used are retrieved immediately after repositioning the machine on the job site, for instance.



Speed of the augers

In automatic mode, the maximum speed of the augers can be adapted to pave width separately for the left and right using the plus and minus keys. The set value is displayed as a percentage on the LED strip.



Safe operation during the night

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



Choice of engine speed ranges

There are three speed ranges for the diesel engine: MIN, ECO and MAX. The desired range can be set easily using the arrow keys. Many construction projects can be completed at ECO rpm. The lower engine speed reduces noise emissions considerably and saves fuel.



Precompaction performance

The speeds of the compacting systems can be set directly on the operator's console. The LED strips from 0 to 100% indicate the set speeds for the tamper and vibrators, allowing them to be adjusted immediately when required.



Steering at a preselected steering angle

The machine is steered by means of a rotary controller which enables the paver operator to manœuvre the machine precisely even in the tightest spots. For long curves with a constant radius, the desired steering angle can be preselected using arrow keys. The paver automatically stays on the set track until the function is deactivated, allowing the paver operator to monitor the paving process undisturbed.



The ErgoBasic remote control unit for the screed

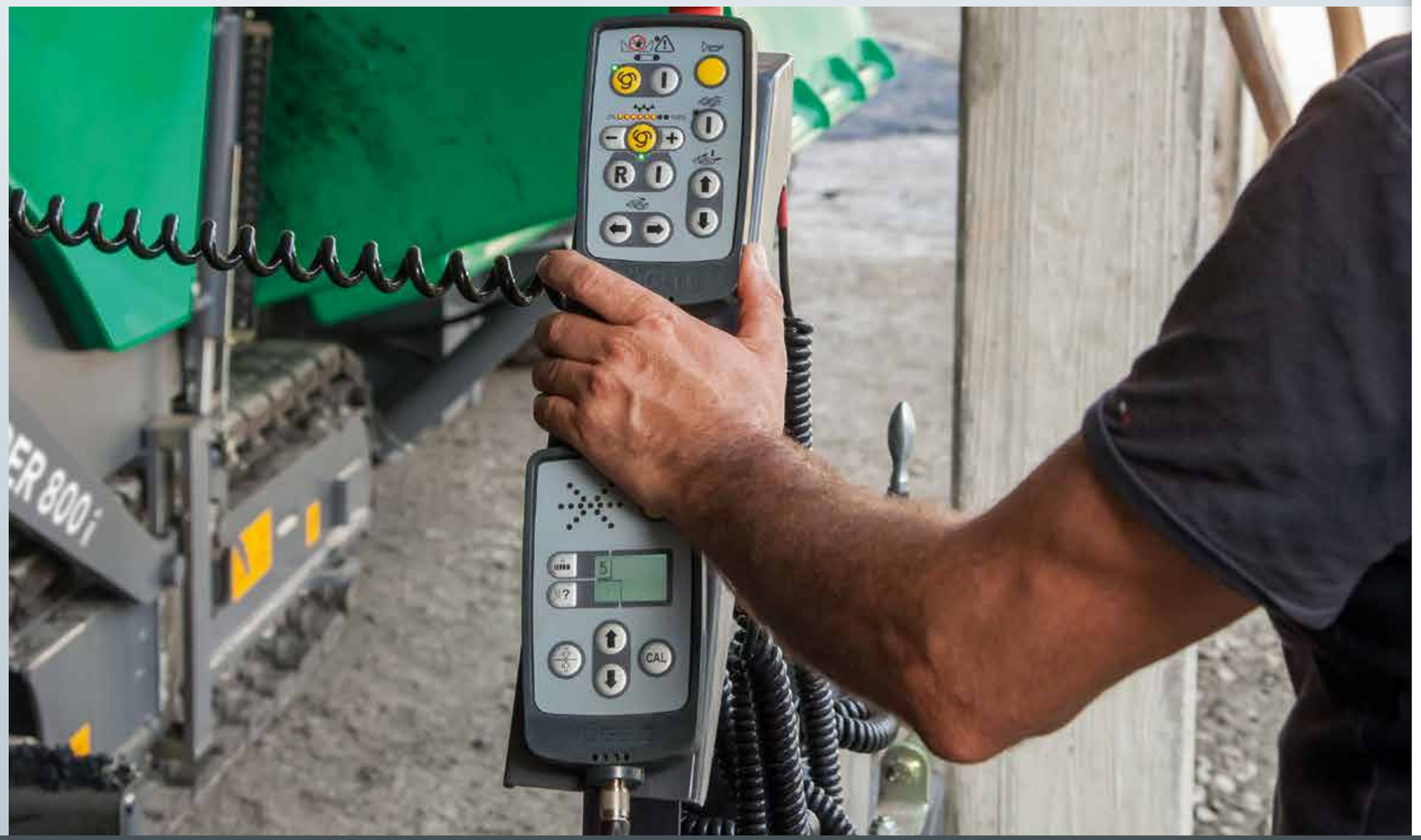
Safe and easy handling of all screed functions is a key factor in high-quality pavement construction, which is why a remote control unit for the screed was developed specifically for the ErgoBasic operating system of the SUPER 800i.

The remote control's 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. That includes direct access to the material handling systems and the sonic sensor for the auger.

There is a remote control unit for each side of the screed. The magnetic bracket and spiral connection give the operator a significant range of movement. This means that he can always operate the screed from the best possible position, a factor of immense importance, particularly when working in confined spaces.



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

1 // Conveyor, automatic/manual

2 // Horn

3 // Auger, automatic/manual/ reverse

4 // Screed floating on/off

5 // Screed width control, one side

6 // Adjustment of screed tow point ram



ERGOBASIC

Remote control unit for Niveltronic Basic

VÖGELE has also developed a System for Automated Grade and Slope Control to match the ErgoBasic operating system: Niveltronic Basic. It is completely integrated in the machine control system and therefore perfectly adapted to the paver model concerned. 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 small paver 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. These units are easily removed from their magnetic brackets, giving the operator a significant range of movement so that he can always adopt the ideal position for every paving job.

A variety of sensor types is available for Niveltronic Basic, in keeping with the machine's large and varied range of uses. These sensors extend from a mechanical to non-contacting sonic sensors and even include a laser receiver for surfacing large areas.

The System for Automated Grade and Slope Control can simultaneously be connected to two grade sensors and a 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 come with all the functions required for high-precision grade and slope control. Clear symbols allow the machine to be operated intuitively.

1 // Deviation from specified values

2 // Niveltronic Basic on/off

3 // Setting: sensor sensitivity

4 // Selecting: kind of reference (ground, tensioned wire, transverse slope)

5 // Quick set-up

6 // Setting: specified value

7 // Sensor calibration



ERGOBASIC

Future-proof drive technology

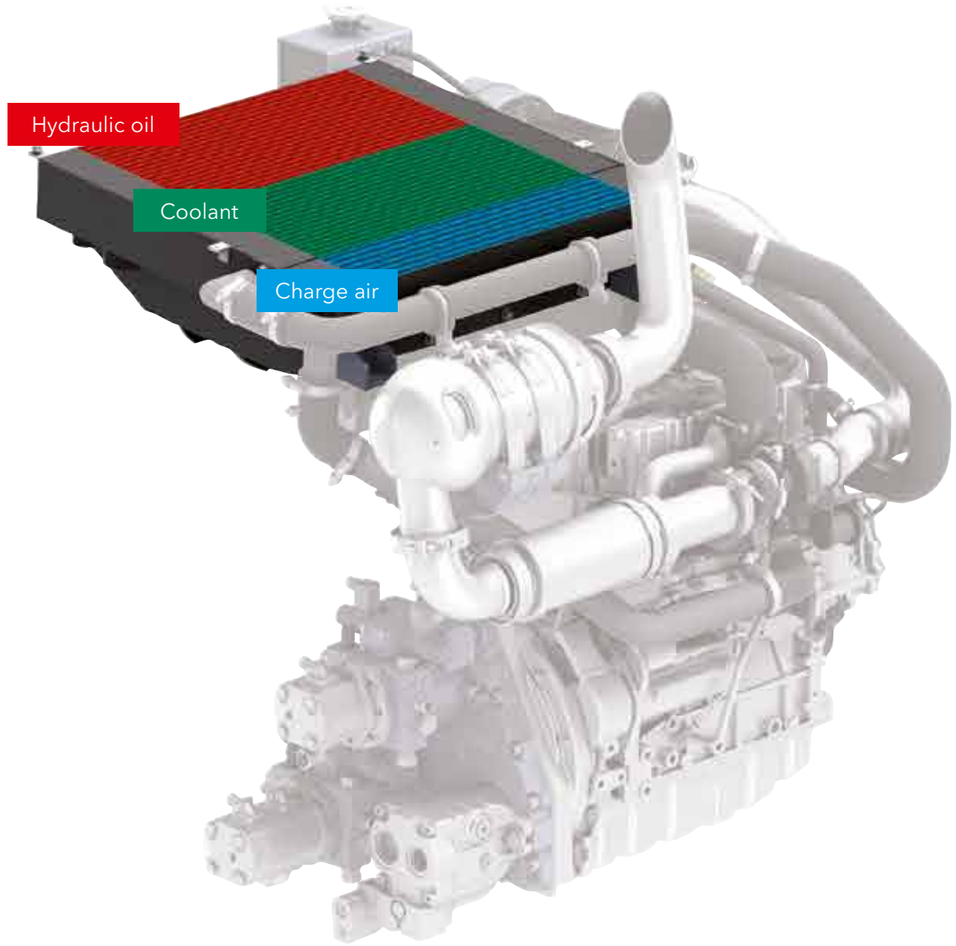
Three main components form the power unit of a SUPER 800i: its modern, liquid-cooled diesel engine, a splitter gearbox flanged directly to the engine and a large cooler assembly.

The driving force in this power pack from VÖGELE is its high-performance diesel engine. The four-cylinder engine delivers 55.4 kW at 2,200 rpm, though fuel-saving ECO mode is sufficient for many applications. Even then, the SUPER 800i still has a full 54 kW at its disposal. Moreover, the machine generates even less noise when running at just 1,800 rpm.

A large cooler assembly ensures that the power unit always delivers its full output. With innovative air routing and a variable-speed fan, temperatures are continuously maintained within the optimum range, significantly extending the service life of both the diesel engine and the hydraulic oil. A further advantage is that the machine can operate without difficulty in all climate regions worldwide.

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





A large cooler assembly with innovative air routing is installed for perfect cooling of the engine coolant, hydraulic oil and charge air in every climate zone in the world. This ensures that the diesel engine can deliver maximum output and helps prolong its service life.

- **Delivering 55.4 kW,** the modern diesel engine can achieve optimum efficiency.
- **ECO mode with 54 kW** cuts operating costs and allows super-quiet operation.
- **The sophisticated exhaust gas after-treatment of the engine** complies with the strict requirements of European emissions standard Stage V as well as US EPA standard Tier 4f.
- **The splitter gearbox** perfectly transmits the power output of the diesel engine to the hydraulic pumps.

Precision on tracks



Positive tracking when moving straight and accurate cornering are delivered by the separate drive and electronic control provided for each crawler track.



» **Powerful separate drives** fitted into the sprockets of the crawler tracks enable engine output to be translated into pave speed with no loss of power.

» **The long crawler tracks** have a large footprint to deliver maximum traction. This ensures a constant forward speed, even when operating on difficult terrain.

Identical service concept



The standardized service concept conceived for the VÖGELE pavers means that servicing is quick and uncomplicated. Large hinged panels provide convenient access to all service points on the machine.



Wear-resistant components also guarantee a long service life.



All hydraulic pumps are located on the splitter gearbox and their clear arrangement and easy accessibility provide maximum ease of servicing.

The screeds for the SUPER 800i



The AB 200 Extending Screed and the AB 220 Extending Screed with tamper and vibrators, were designed specifically for use with the SUPER 800i. The extending screeds play specifically to the strengths of this Mini Class paver. Not only do they deliver the greatest possible flexibility, they also meet VÖGELE's own quality standards.

The AB 200 Extending Screed has a basic width of just 1.1 m and extends hydraulically up to 2 m. It is ideal for paving narrow paths and paving between rails or in milled strips. The AB 220 Extending Screed is available for rather larger projects. With a basic width of 1.2 m, it extends hydraulically to 2.2 m. If bolt-on extensions are mounted, the maximum width is as much as 3.5 m.

» **The maximum pave width** of Extending Screed AB 200 is 3.2 m, whilst that of Extending Screed AB 220 is as much as 3.5 m.

» **With their compaction units** tamper and vibrators, Extending Screeds AB 200 TV and AB 220 TV achieve outstanding, indeed extraordinary, precompaction values for a paver of this class.

Reduction in width

» **Once mounted,** the system for pave width reduction allows infinite variation of the pave width to 0.5 m. This is conveniently handled from the paver operator's stand without a need for conversion.

» **The system for pave width reduction** makes backfilling trenches or paving an asymmetrical width along kerbstones or walls an easy game, even when using joint tape.



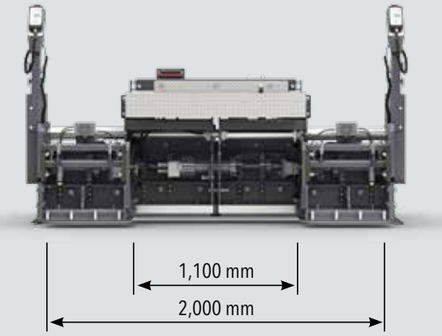
With the system for pave width reduction fitted, the screed floats on the mix just as it does when paving in a non-reduced width. This allows the layer thickness to be adjusted via the screed tow point rams or even to be controlled with Niveltronic Basic.

The floating screed not only delivers precise paving results, but also achieves excellent precompaction.

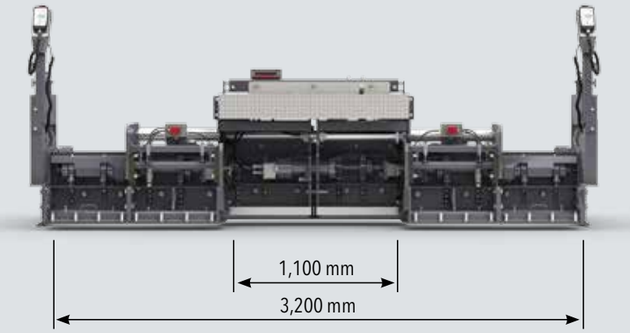


AB 200 TV and AB 200 TV Extending Screeds

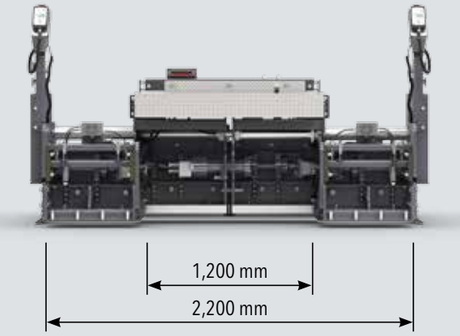
AB 200 TV — AB 200 TV without bolt-on extensions



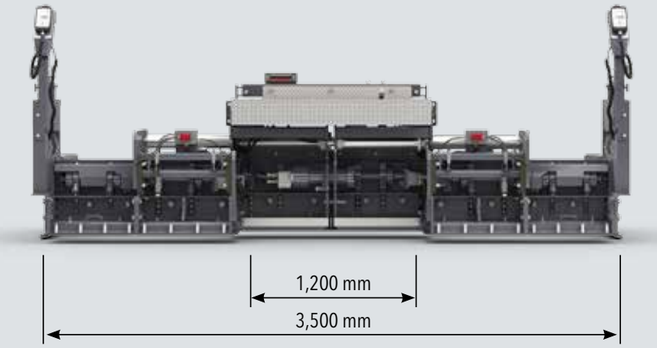
AB 200 TV — AB 200 TV with 60 cm bolt-on extensions



AB 220 TV — AB 220 TV without bolt-on extensions



AB 220 TV — AB 220 TV with 65 cm bolt-on extensions



AB 200 TV

Pave widths
- Infinitely variable range from 1.1 m to 2 m
- Maximum pave width with bolt-on extensions:
  - 2.7 m (2 x 35 cm)
  - 3.2 m (2 x 60 cm)
- Minimum pave width of 0.5 m with system for pave width reduction

Compacting system
- AB 200 TV with tamper and vibrators



AB 220 TV

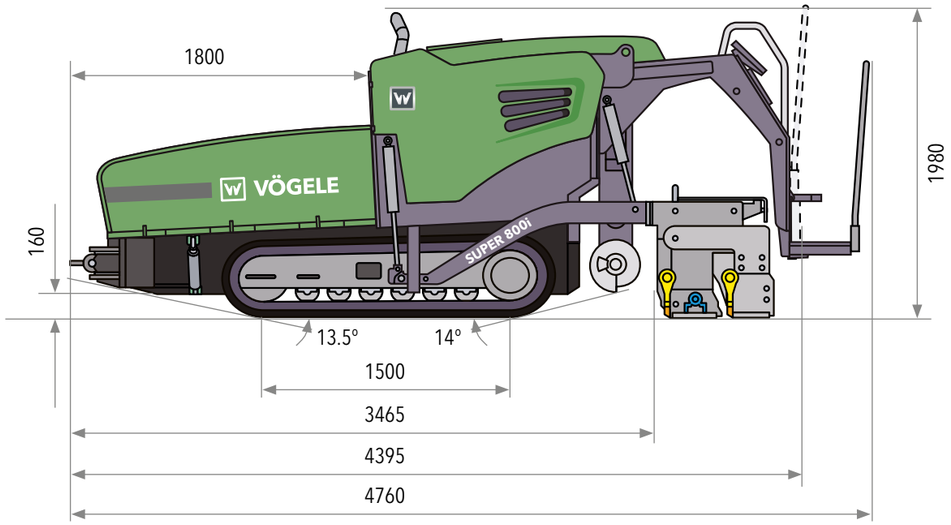
Pave widths
- Infinitely variable range from 1.2 m to 2.2 m
- Maximum pave width with bolt-on extensions:
  - 2.7 m (2 x 25 cm)
  - 3.2 m (2 x 50 cm)
  - 3.5 m (2 x 65 cm)
- Minimum pave width of 0.5 m with system for pave width reduction

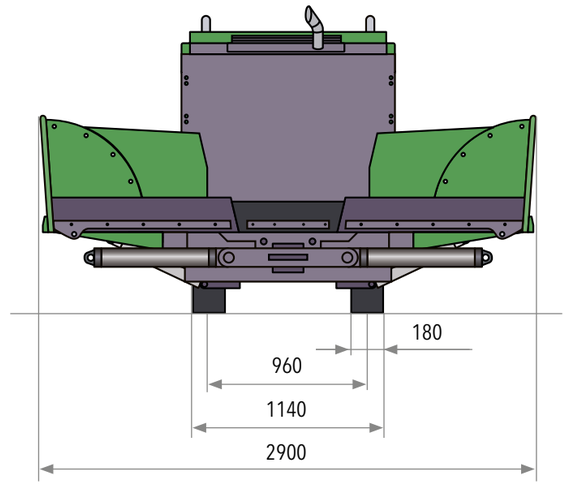
Compacting system
- AB 220 TV with tamper and vibrators



All the facts at a glance

Dimensions in mm





Power unit	
Engine	4-cylinder diesel engine, liquid-cooled
Manufacturer	Deutz
Type	TCD 2.9 L4
Output	
Nominal	55.4 kW at 2,200 rpm (according to DIN)
ECO mode	54 kW at 1,800 rpm
Exhaust emissions standard	EU Stage V, US EPA Tier 4f
Exhaust gas after-treatment	DOC, DPF
Emission data	
Sound power level	≤104 dB(A) (2000/14/EC and DIN EN 500-6)
Daily noise exposure level	>80 dB(A) (DIN EN 500-6)
Fuel tank	80 litres

Undercarriage	
Crawler tracks	provided with rubber pads
Ground contact	1,500 x 180 mm
Suspension	rigid
Track tension adjuster	spring assembly
Track roller lubrication	lifetime
Traction drive	separate hydraulic drive and electronic control provided for each crawler track
Speeds	
Paving	up to 30 m/min., infinitely variable
Travel	up to 3.6 km/h, infinitely variable
Service brake	hydraulic
Parking brake	spring-loaded multiple-disc brake, maintenance-free

Material hopper	
Hopper capacity	5.8 t
Width	2,900 mm
Feed height	500 mm (bottom of material hopper)
Push-rollers	oscillating, fold up with the sides of the material hopper, adjustable by 100 mm to the front, 50 cm to the left

Conveyor and augers	
Conveyor	1, with replaceable feeder bars, conveyor movement is reversible
Drive	hydraulic
Speed	up to 20 m/min., infinitely variable (manual or automatic)
Augers	2, mounted overhung, auger rotation is reversible
Diameter	300 mm
Drive	separate hydraulic drive provided for each auger
Height	
Standard	infinitely variable by 10 cm, mechanical
Option	infinitely variable by 10 cm, hydraulic

Screeds		
AB 200	basic width	1.1 m
	infinitely variable range	1.1 m to 2 m
	maximum width	3.2 m
	minimum pave width	0.5 m
	compacting system	TV
AB 220	basic width	1.2 m
	infinitely variable range	1.2 m to 2.2 m
	maximum width	3.5 m
	minimum pave width	0.5 m
	compacting system	TV
Layer thickness	up to 20 cm	
Screed heating	electric by heating rods	
Power supply	three-phase AC generator	

Dimensions (transport) and weights	
Clearance width	1.4 m
Length	tractor unit and screed
AB 200/220	4.4 m
Weights	tractor unit and screed
AB 200	6,500 kg
AB 220	6,600 kg

Key: **DOC =** diesel oxidation catalyst **DPF =** diesel particulate filter **AB =** extending screed **TV =** with tamper and vibrators

Subject to technical alterations.

A WIRTGEN GROUP COMPANY

VÖGELE

Your VÖGELE QR Code will take you straight to the "SUPER 800i" on our website.



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