

Wheeled Paver

SUPER 1303-2



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Maximum Pave Width 4.5m
Maximum Laydown Rate 250 tonnes/h
Transport Width 1.85m

Compact Size, Big Performance



Minor municipal roads, farm tracks, foot and cycle paths or small to medium-sized areas – if this is the kind of paving jobs you need to get done, then the VÖGELE SUPER 1303-2 joins your game. This wheeled paver features extremely compact design and superb manoeuvrability.

A basic width of 1.85m and an overall length of just 4.95m make the paver ideal for jobs in confined spaces.

Though a compact-size machine, SUPER 1303-2 stands out through excellent performance due to its perfected overall concept. Powered by a DEUTZ engine rated at 74.9kW, the paver achieves laydown rates up to 250 tonnes/h.

Coming with an AB 340 Extending Screed in TV version for pave widths up to 4.5m, the SUPER 1303-2 conveniently handles medium-sized jobs as well.

And it is big, too, when it comes to operation. Equipped with ErgoPlus®, the concept for easy paver handling, SUPER 1303-2 offers to operators a modern workplace of ergonomic design adding to even more safety and comfort on job sites.

SUPER 1303-2

At a Glance

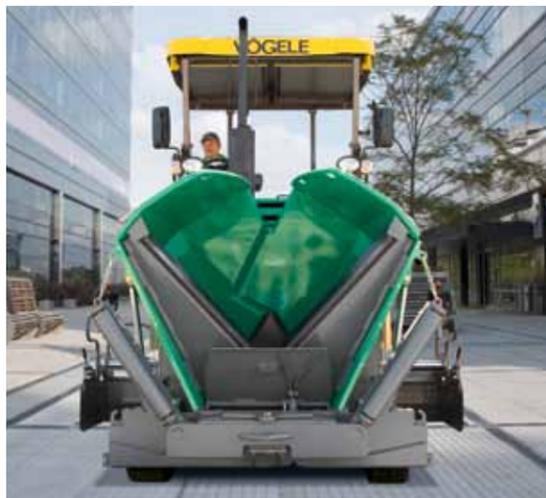


- ▶ Maximum pave width 4.5m
- ▶ Laydown rate up to 250 tonnes/h
- ▶ Transport width just 1.85m
- ▶ Turning radius (outside) 4.8m
- ▶ Powerful DEUTZ engine rated at 74.9kW
- ▶ Combines with AB 340 Extending Screed in TV version (with tamper and vibrators)
- ▶ Electric screed heating
- ▶ Comes with ErgoPlus®, the concept for easy paver handling

Wheeled Paver SUPER 1303-2



Excellent Mobility for Paving in Tight Corners



No component on the SUPER 1303-2 protrudes beyond its slim silhouette. With the hopper sides folded up, its basic width comes to no more than 1.85m – and this in conjunction with a length of just 4.95m. As a result, it can be driven nearly anywhere and fit through almost any gap. Yet it can still pave up to a width of 4.5m. No other paver in its class can match this.

- ▶ The small turning radius (outside) of just 4.8m delivers the manoeuvrability needed when working in tight spaces.
- ▶ The slim paver design without protruding edges and an overall length of no more than 4.95m renders the machine ideal for paving on small job sites.
- ▶ Paver easily gets in or out of confined working areas as push-rollers fold up together with the hopper sides.
- ▶ The hardtop of glass fibre reinforced polymer material folds down with effortless ease, thus getting the paver quickly ready for transport.

Efficient Drive System



- ▶ Modern and powerful DEUTZ engine rated at 74.9kW delivering ample power even for major paving tasks.
- ▶ ECO Mode (64kW at 1,800 rpm) is sufficient for many paving applications. The engine's noise emission, low anyway, is further decreased when working in ECO Mode. In addition, ECO Mode reduces fuel consumption and wear.
- ▶ Powerful three-phase A.C. generator with generator management controlling generator output in compliance with your pave width. Heating the screed to operating temperature takes a short time only.
- ▶ A large cooler assembly provides for ideal temperatures inside the hydraulic system. Thanks to innovative routing of the cooling air, excellent cooling is ensured even when working under full load, which prolongs the drive units' service lives.

Travels Swiftly Under Its Own Power



A powerful paver that's a comfortable drive on the road. The precise steering and handling characteristics make for the SUPER 1303-2's excellent manoeuvrability, as demonstrated by its outside turning radius of just 4.8m. With its powerful traction drive, the machine can pave swiftly and travel on public roads at a maximum speed of 20km/h. So if its next job site is close at hand, there is no need for a low-bed trailer to transport the paver.

- ▶ Moves quickly on the job site and travels rapidly on public roads (up to 20km/h).
- ▶ The paver's Operating Authorization Certificate facilitates, in many countries, issuance of a permit for travel on public roads.
- ▶ Maximum power transmission thanks to separate, hydraulic drives provided for the rear wheels and one set of front wheels.
- ▶ The front wheels are mounted on bogies. Bogies oscillating in a longitudinal direction compensate minor irregularities in the base and provide for permanent contact of the front wheels with the ground.
- ▶ Electronic Traction Management guarantees optimum tractive effort and ensures a constant pave speed.

Easy Feed with Mix



Despite the paver's slim profile, its material hopper holds 10 tonnes. The hydraulic hopper front (option) supports both supply of the paver with mix and emptying of the material hopper. The paver comes with oscillating push-rollers to ensure the shock-free docking of feed vehicles.

- ▶ The large material hopper holding 10 tonnes is amply dimensioned so that a sufficient quantity of mix is stored at all times. No problem to tide over situations where feed with mix may be difficult (narrow places, for instance).
- ▶ Thanks to a hydraulically operated hopper front (option), no spills of mix when feed lorries change. Directs the mix inside the material hopper right onto the conveyors for complete emptying. No hand work with shovels required.
- ▶ Oscillating push-rollers for convenient and shock-free docking also of large feed vehicles.
- ▶ Hopper sides, folding separately, guarantee a consistent feed with mix even when paving in asymmetrical width along boundaries such as walls, for instance.

Proportional Control Provided for Conveyors and Augers



The conveyance and spreading of mix in front of the screed is optimal thanks to the large conveyor tunnel, proportional control of conveyors and powerful augers. Furthermore, augers adjustable in height and folding limiting plates for the auger tunnel allow the paver to be moved on the job site without a need for conversion. This saves time and money.

- ▶ The large conveyor tunnel and powerful separate hydraulic drives for conveyors and augers allow extraordinarily high laydown rates up to 250t/h.
- ▶ Separate drive and control is installed for each conveyor and each 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.
- ▶ Automatic control for conveyor and augers allows the paver operator to focus on other essentials while paving.
- ▶ The height of the augers is infinitely variable by 13cm for uniform spreading of mix across the entire pave width.
- ▶ Folding limiting plates for the auger tunnel are installed to quickly set up the machine for paving within the range of 2.6m and 4.5m. There is no need for conversion.

Maintenance is Quick and Easy



The identical servicing concept of the “dash 2” pavers permits rapid, uncomplicated maintenance. All servicing points on the machine are easily accessible via large hinged panels.

- ▶ 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.
- ▶ The bearings of conveyors and augers are maintenance-free.
- ▶ Sturdy components of highly wear-resistant materials for long service lives minimize downtime.
- ▶ A uniform 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 to the operator a maximum of ergonomic comfort and workplace safety. Therefore, the ErgoPlus® operating concept focuses on the operator.

The example diagrams on the following pages will provide you with additional 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 adjust conveniently and easily in keeping with 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. In case of need, it offers the great advantage of easy replacement of single modules without having to replace the entire unit.



ErgoPlus® Paver Operator's Console



ErgoPlus® Screed Console



ErgoPlus® Operator Stand



THE ErgoPlus[®] PAVER OPERATOR'S CONSOLE

Full control for the machine operator

THE ErgoPlus® SCREED CONSOLE

Easy Operation Guaranteed

Crucial for pavement quality is the screed. 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.



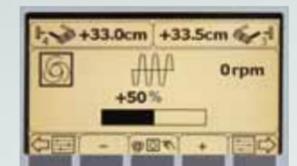
The Screed Console

The screed console is designed in keeping with the conditions prevailing on the job site. For the functions operated from the screed console, push-buttons are provided. These are watertight and enclosed in a perceptibly raised ring, 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 his 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.

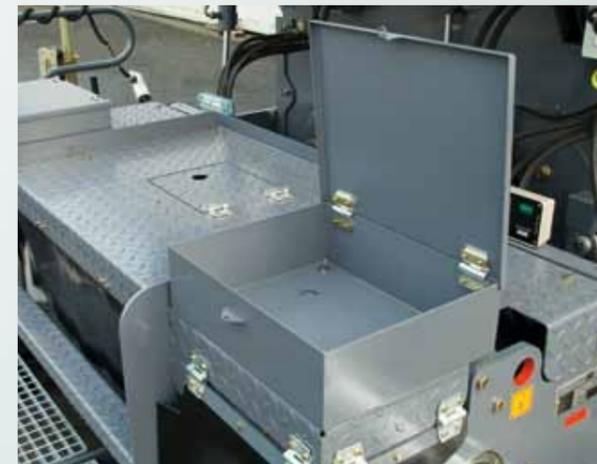


Automatic Mode for Augers, Reversing Auger Rotation

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



THE ErgoPlus® OPERATOR STAND



Excellent All-Round Visibility

- ▶ The comfortable operator stand gives 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, thus 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 in keeping with 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 Place for Everything and Everything in its Place

- ▶ The operator's stand of streamlined design is very well organized, so that the paver operator enjoys 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

- ▶ A modern hardtop of glass fibre reinforced polymer material shelters the operator whether rain or shine.
- ▶ Wide sunshades extending easily give the operator optimal protection even with his seat moved out.
- ▶ The hardtop lowers down quickly and with effortless ease by a manually operated hydraulic pump.

Screed



For SUPER 1303-2, the AB 340 TV Extending Screed is the perfect match. The screed with a basic width of 1.8m extends hydraulically up to 3.4m.

By addition of bolt-on extensions, it builds up to a maximum width of 4.5m. AB 340 comes in TV version with tamper and vibrators for excellent degrees of compaction. Compacting systems are installed across the screed's full pave width, including bolt-on extensions.

- ▶ A typical VÖGELE feature also found in the AB 340 TV Extending Screed is electric heating. The modern, powerful screed heating system provides for quick and uniform heating to operating temperature, an essential for smooth surface texture.
- ▶ The unique VÖGELE single-tube telescoping system allows screed width control, accurate to the millimetre, up to 3.4m.
- ▶ Telescopic tubes are located in high positions, so that any contact with hot mix is positively avoided for impeccable extension and retraction of the screed and long service life.

- ▶ Excellent insulation of the screed plates reduces loss of heat to a minimum. Heating the screed takes a short time only, even with engine running at minimum rpm.
- ▶ **Transverse Pavement Profiles**
 - Screed paves negative crown up to -2.5% and positive crown up to +4.5%.
 - Crown adjustment by spindles.
 - The screed's extending units are separately adjustable in height, at insides and outsides.
 - Easy set-up of most varied shapes including M and W profiles.

- ▶ **Electric Screed Heating**
 - Homogeneous surface texture due to uniform heating of screed plates and tamper bars.
 - The time required for electric heating of the screed to reach operating temperature is reduced substantially thanks to intelligent Generator Management, even with engine running at minimum rpm.

The Screed for SUPER 1303-2



AB 340 TV

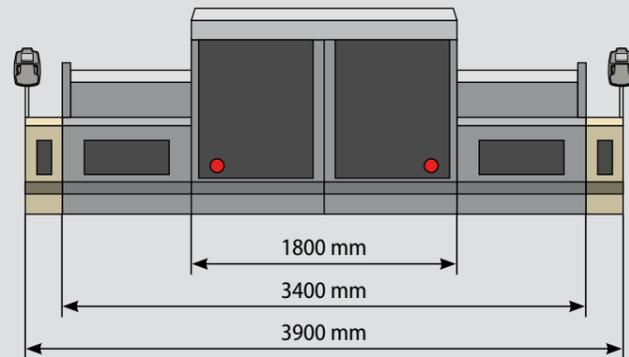
Pave Widths

- Infinitely variable range from 1.8m to 3.4m.
- Larger widths by addition of 2 bolt-on extensions, 25cm each, up to a maximum of 3.9m.
- Larger widths by addition of 2 bolt-on extensions, 55cm each, up to a maximum of 4.5m.
- Smaller widths by fitting cut-off shoes down to a minimum of 75cm.

Compacting Systems

- Tamper
- Vibrators

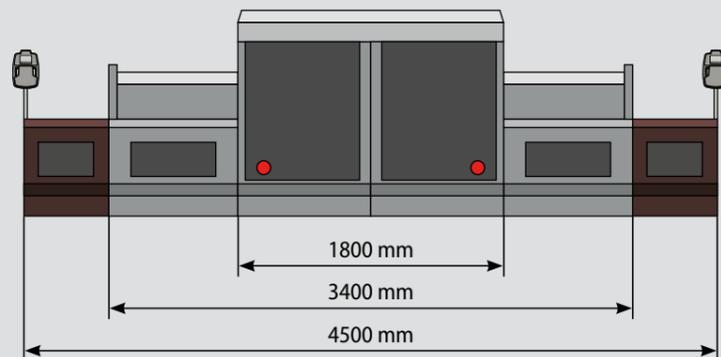
AB 340 TV with 25cm bolt-on extensions

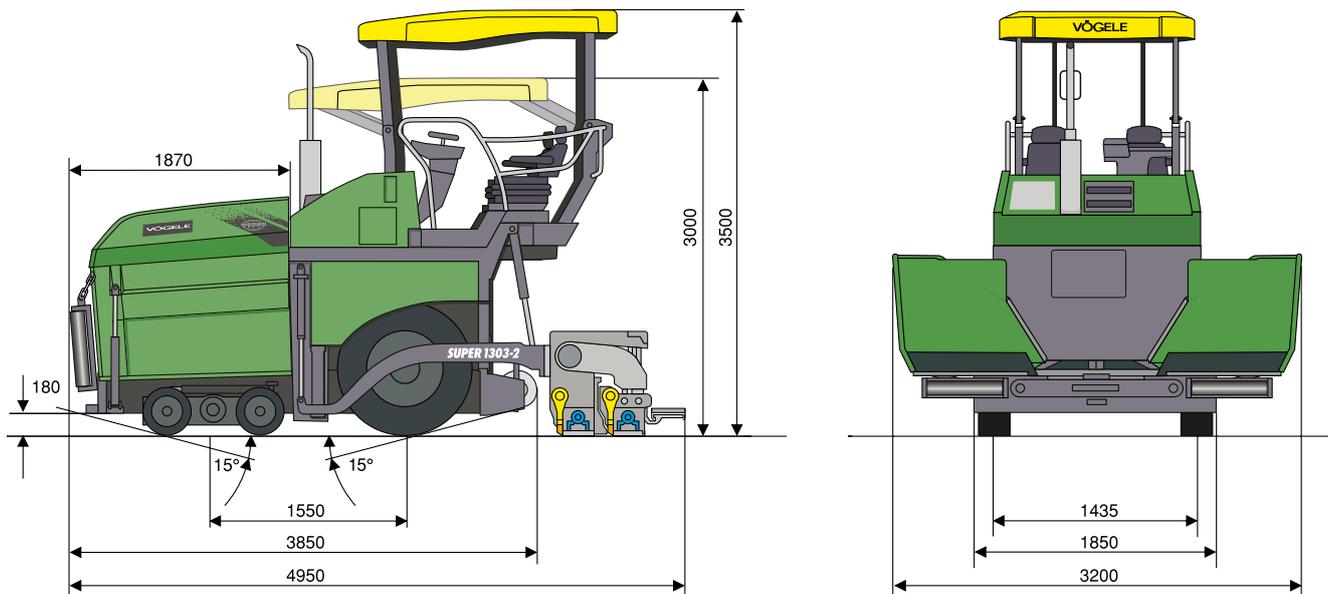


Easy Transport

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

AB 340 TV with 55cm bolt-on extensions





Dimensions in mm

Power Unit

Engine:	4-cylinder DEUTZ diesel engine
Type:	TCD2011L04w
Output:	Nominal: 74,9kW at 2,300 rpm (according to DIN)
	ECO Mode: 64kW at 1,800 rpm
Fuel Tank:	105 litres
Electrical System:	24 V

Undercarriage

Front Wheels:	4, mounted on bogies
Tyre Equipment:	solid tyres
Tyre Size:	460/250-310
Rear Wheels:	2, pneumatic tyres
Tyre Size:	365/80 R 20 XZL TL 152K
Drive:	separate hydraulic drive provided for each wheel, - Standard: 2 rear wheels and 2 front wheels powered
Speeds:	- Paving: up to 30m/min., infinitely variable - Travel: up to 20km/h, infinitely variable
Turning Radius:	4.8m (outside)
Power Steering:	hydraulic
Service Brake:	hydrostatic, combined with multiple-disk brake
Auxiliary Brake:	spring-loaded multiple-disk brake, maintenance-free
Parking Brake:	spring-loaded multiple-disk brake, maintenance-free

Material Hopper

Hopper Capacity:	10 tonnes
Width:	3,200mm
Feed Height:	480mm (bottom of material hopper)
Push-Rollers:	oscillating, displaceable forwards by 80mm

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 25m/min., infinitely variable (manual or automatic) Conveyor Bearings: maintenance-free
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Augers:

2, auger rotation reversible
Diameter: 300mm
Drive: hydraulic, separate drive provided for each auger
Speed: up to 80 revs/min., infinitely variable (manual or automatic)
Auger Height:
- Standard: infinitely variable by 13cm, mechanical
- Option: infinitely variable by 13cm, hydraulic
Auger Bearings: maintenance-free

Screed

AB 340:	basic width 1.8m, infinitely variable range 1.8m to 3.4m maximum width 4.5m minimum width 0.75m Reduction in Width: by cut-off shoes, 2 x 52.5cm
Screed Version:	TV
Layer Thickness:	up to 25cm
Screed Heating:	electric by heating rods
Power Supply:	three-phase A.C. generator

Dimensions and Weights

Length:	Tractor Unit and Screed in Transport Position: 4.95m
Weights:	Tractor Unit with AB 340 Screed in TV Version: - Pave Widths up to 3.4m: 9.2 tonnes - Pave Widths up to 4.5m: 9.5 tonnes

Optional Equipment

Hydraulic hopper front. Hardtop of glass fibre reinforced polymer material with wide sunshades. NIVELTRONIC Plus® for Automated Grade and Slope Control (various sensors available). Sonic sensors to monitor head of mix in front of the screed. Washdown system with hose reel.
For more optional extras please contact your VÖGELE partner.

Key: T = equipped with Tamper AB = Extending Screed
V = equipped with Vibrators

Technical alterations reserved.

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