

Tracked Paver

SUPER 1300-2



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Maximum Pave Width 5m

Maximum Laydown Rate 350 tonnes/h

Transport Width 1.85m

Compact-Size and Powerful: The Tracked SUPER 1300-2



SUPER 1300-2 is a highly versatile paver of the compact equipment class which, thanks to its small size, handles a wide range of most varied surfacing tasks including combined footpaths and cycle paths, farm track applications or minor roadways. Due to pave widths extending from just 0.75m to 5m, the SUPER 1300-2 gets all these jobs done with ease.

The powerhouse is driven by a modern DEUTZ engine rated at 74.9kW. By achieving a maximum laydown rate of some 350 tonnes/h, SUPER 1300-2 is an excellent performer, too, when it comes to tackling major paving jobs.

The paver combines with an AB 340 Extending Screed in TV version for superb compaction. Heated electrically like

all VÖGELE screeds, it raises standards in terms of performance and efficient electric power utilization.

Like all machines in the “dash 2” generation, the innovative operating concept ErgoPlus® of the SUPER 1300-2 also renders a major contribution to greater safety and higher quality on the job site. With ErgoPlus®, handling the paver is child’s play.

SUPER 1300-2

At a Glance



- ▶ Maximum pave width 5m
- ▶ Laydown rate up to 350 tonnes/h
- ▶ Transport width only 1.85m
- ▶ 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
- ▶ Hardtop with wide sunshades

Tracked Paver SUPER 1300-2



The Right Paver for Jobs in Tight Spaces



No component on the SUPER 1300-2 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 5m. No other paver in its class can match this.

- ▶ The slim paver design without protruding edges and an overall length of no more than 4.95m renders the machine ideal for easy paving and manoeuvring in tight corners.
- ▶ For passing through narrow spaces, 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 Drives for High Paving Performance



- ▶ The modern DEUTZ engine rated at 74.9kW delivers ample power for every paving job.
- ▶ 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.
- ▶ The large cooler assembly provides for optimum cooling even when operating at full load, thus increasing the service life of the paver systems.
- ▶ For hydraulic functions, powerful separate drives are installed operating in closed circuits. This solution allows engine output to be transformed highly efficiently into hydraulic paver performance.

Crawler Tracks Providing Maximum Tractive Effort



Thanks to powerful crawler tracks, the SUPER 1300-2 easily pushes heavy feed vehicles and gets on well even on soft bases when paving in large widths. In terms of traction, too, the VÖGELE drive concept for tracked pavers leaves nothing to be desired.

- Thanks to powerful separate drives fitted into the sprockets for crawler tracks, engine output is translated into pave speed with maximum efficiency.
- Long crawler tracks with large ground contact provide for maximum tractive effort, allowing the paver to get on well at a constant speed even when operating on difficult terrain.
- Separate drive and electronic control are provided for each crawler track for sensitive speed control, positive tracking when moving straight and accurate turning of radii.

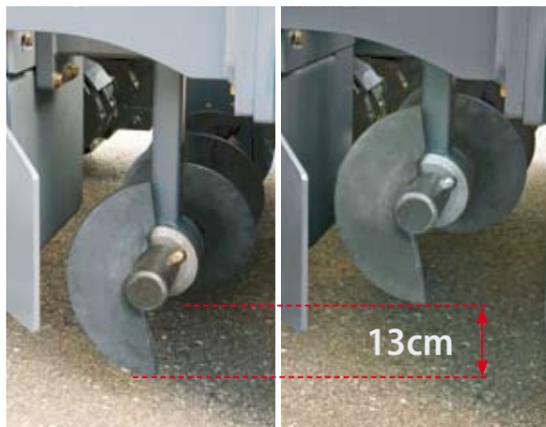
Easy and Clean Feed with Mix



When feeding the paver with mix becomes difficult on narrow job sites, then the large capacity of the SUPER 1300-2's material hopper provides that, nevertheless, an optimal amount of mix is supplied in front of the screed.

- 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. They allow to smoothly pave along boundaries such as walls.

Perfect Conveyance and Spreading of Mix Like in Large Pavers



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.

- ▶ Thanks to an amply dimensioned conveyor tunnel and powerful, separate hydraulic drives provided for conveyors and augers, the SUPER 1300-2 achieves laydown rates up to 350 tonnes/h, a performance extraordinarily high for a paver in its class.
- ▶ 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.
- ▶ Augers are infinitely variable in height by 13cm across the full pave width for optimal spreading of mix. Hydraulic auger height adjustment is available as an option.
- ▶ Folding limiting plates for the auger tunnel are provided to quickly set up the machine for paving within the range of 2.6m and 4.2m. 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® PAVER OPERATOR'S CONSOLE

Clear and Logical Arrangement of Controls

The ErgoPlus® paver operator's 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 where they suppose these should 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 you have it in your 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.



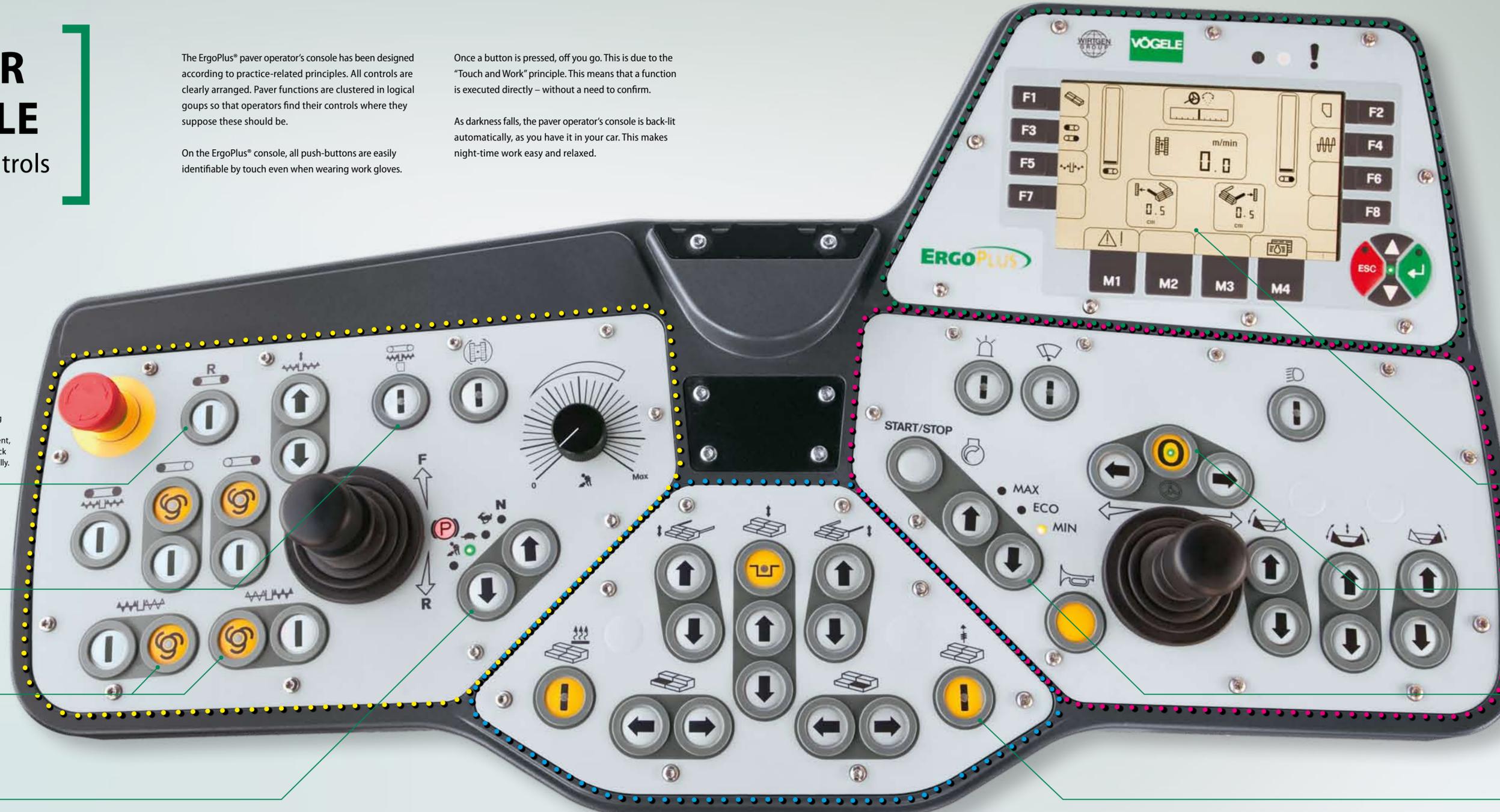
No-Load Function
The No-Load function is provided for warm up or cleaning of conveyors, augers and tamper.



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 provide 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 order as follows: "Neutral", "Job Site Mode", "Positioning Mode" and "Pave Mode". A LED indicates the mode selected. When leaving "Pave Mode", a smart Memory feature stores 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. Set-up of further paver functions such as speeds for tamper and vibrators or feed rate for the conveyors can easily be made via the display, too. And the display gives access to machine-related information such as fuel consumption or service hours.

Steering
For turning a large radius, fine steering allows to pre-set a track position which is maintained automatically without a need for manual intervention by the operator.

Choice of Engine Speed Ranges
For the engine, 3 modes exist to select from: MIN, ECO and MAX. To swap 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 floats.



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.



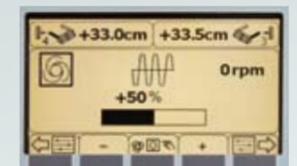
The Screed Console

The screed console is designed in keeping with the conditions prevailing on the job site. For the frequently used functions operated from the screed console, push-buttons are provided. These are watertight and enclosed in perceptibly 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 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 1300-2, 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 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 1300-2



AB 340 TV

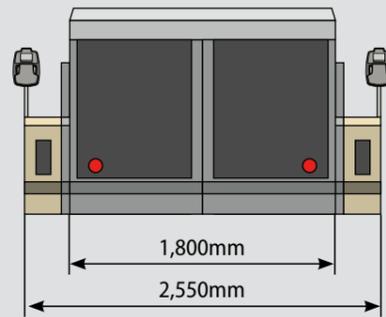
Pave Widths

- 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.
- Larger widths by addition of 2 bolt-on extensions, 80cm each, up to a maximum of 5m.
- Smaller widths by fitting cut-off shoes down to a minimum of 75cm.

Compacting Systems

- Tamper
- Vibrators

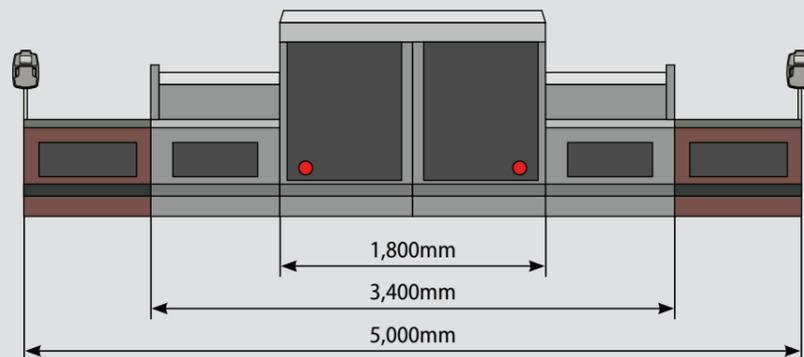
AB 340 TV built up with 25cm bolt-on extensions

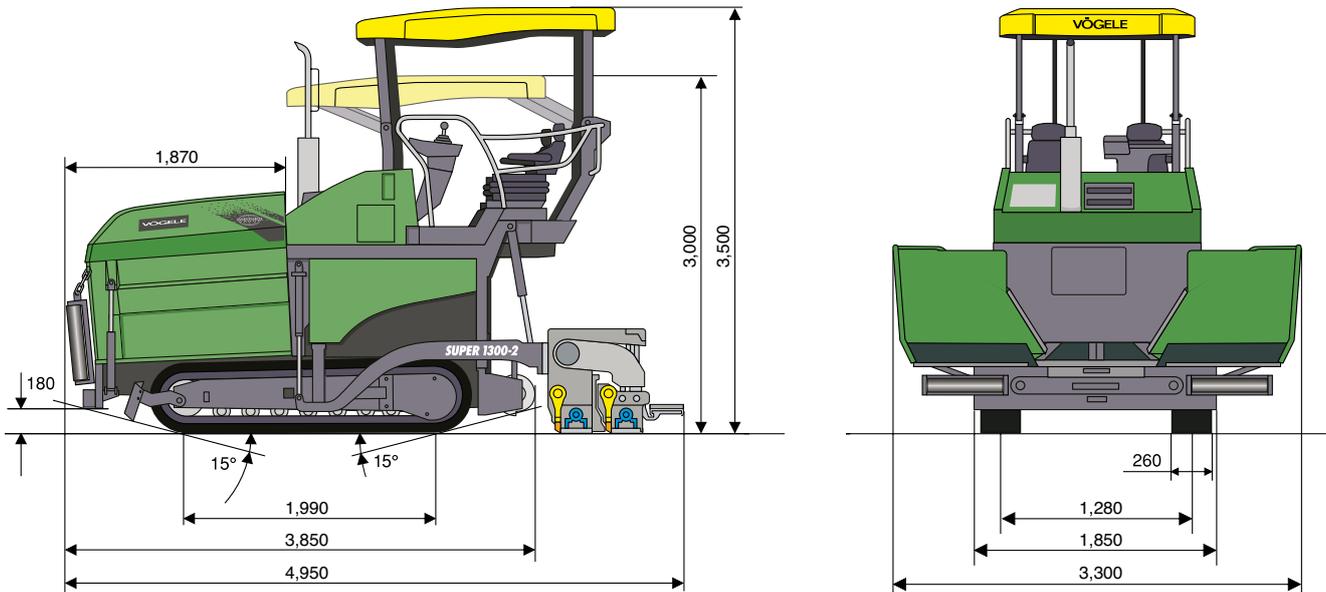


Easy Transport

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

AB 340 TV built up with 80cm bolt-on extensions





Dimensions in mm

Power Unit

Engine:	4-cylinder DEUTZ diesel engine
Type:	TCD 2011 L04w
Output:	Nominal: 74.9kW at 2,300 rpm (according to DIN)
	ECO Mode: 64kW at 1,800 rpm
Fuel Tank:	120 litres
Electrical System:	24 V

Undercarriage

Crawler Tracks:	provided with rubber pads
Ground Contact:	1,990mm x 260mm
Suspension:	rigid
Track Tension Adjuster:	spring assembly
Track Rollers:	lifetime grease lubricated
Traction Drive:	hydraulic, separate drive and electronic control provided for each crawler track
Speeds:	- Paving: up to 30m/min., infinitely variable - Travel: up to 3.6km/h, infinitely variable
Steering:	by alteration of track running speeds
Service Brake:	hydrostatic
Parking Brake:	spring-loaded multiple-disk brake, maintenance-free

Material Hopper

Hopper Capacity:	10 tonnes
Width:	3,300mm
Feed Height:	530mm (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: lifetime grease lubricated

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: lifetime grease lubricated

Screed

AB 340:	basic width 1.8m, infinitely variable range 1.8m to 3.4m
	maximum width 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
Weight:	Tractor Unit with AB 340 Screed in TV Version: Pave Widths up to 3.4m: 9.5 tonnes

Optional Equipment

Hydraulic hopper front. Hydraulic auger height adjustment. 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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JOSEPH VÖGELE AG

Joseph-Vögele-Str. 1
67075 Ludwigshafen · Germany
marketing@voegele.info

Telephone: +49 (0)621 8105 0
Fax: +49 (0)621 8105 461
www.voegele.info

Your VÖGELE QR Code
leading you directly to
the SUPER 1300-2 on
our website.

