

Volvo Construction Equipment
Building Tomorrow



P8820D_{ABG}

Volvo Tracked Pavers 2.5-13 m 200 kW



Go big

Experience the ultimate in paving productivity. With a 13-meter paving width, high capacity hopper and high-performance Volvo engine, the P8820D ABG is the big machine for the big jobs.

Superb stability

Tracks measuring 325mm wide and 3 120mm long provide excellent surface contact. This combines with the strong frame and components to deliver outstanding machine stability. Furthermore, the Volvo automatic track tensioner ensures advanced directional stability across all paving jobs.



Powerfully efficient

The premium Volvo engine is specifically tuned to the hydraulic system and combines high torque at low RPM for superior performance and efficiency. Further reduce fuel consumption with intelligent features such as adaptive ECO Mode, which matches engine output to jobsite requirements, giving you the power to perform.



Configured for success

In addition to asphalt paving, you can prepare your paver to succeed in a variety of specialist applications thanks to a range of available configurations. Achieve the highest levels of compaction density behind the screed in activities such as ballast paving and working with Cement-Treated Base and Roller Compacted Concrete materials.





UNLOCKING PRODUCTIVITY

Take on large paving projects with ease in the P8820D ABG, with a maximum paving width of 13-meters and paving thickness up to 300mm. A hopper capacity of 14.7t and large conveyor tunnel provide paving outputs of 1 100 tonnes per hour.



TAKE CONTROL

Take control with the Electronic Paver Management (EPM3) system. Backlit for nightshifts, all buttons are consolidated into the control system and arranged for ease of operation. EPM3 features integrated functions such as Settings Manager, which stores customized settings for individual projects to ensure consistent paving quality from job to job, and Service Interval Manager which alerts the operator to required or scheduled maintenance.

Operator's choice

Volvo pavers are industry-renowned for providing the highest levels of operator comfort, and in the P8820D ABG operators can enjoy comfortable, safe and productive working shifts with intuitive controls, excellent visibility, intelligent functions and spacious platform.

Every angle in view

Operators experience unhampered visibility thanks to the flat engine hood design, smaller electrical boxes, glazed areas to both sides of the platform, extendable seat and near-field mirrors. Six standard work lights and optional lighting kits further boost safety when working at night. The home light function illuminates the platform for three minutes after the main switch is turned on or the ignition is turned off.



Easy on the ears

Achieve high paving performance at remarkably low noise levels. By matching engine output to work requirements, the adaptive ECO Mode and optimized RPM reduce noise levels, benefitting the paving crew and local community alike. Insulated components throughout the machine offer further noise reduction.



Pave Assist

Powered by the optional Volvo Co-Pilot, Pave Assist provides a powerful set of digital tools, including Material Manager, Thermal Profiling and Weather View, which are designed to make the operator's life easier, document the paving process and enhance mat quality.



Smarter docking

Enhance paving efficiency with the optional Smart Dock. Remote controlled light bars provide visual signals to the tipper driver, helping to ensure they approach and unload into the paver hopper in the safest and most effective way. This results in less interruptions to material supply, reduced material spillage and a more consistent mat quality.

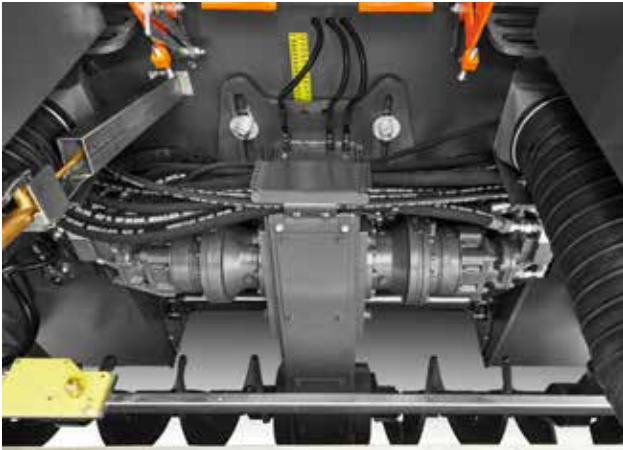


Enduring quality

Rely on the P8820D ABG for consistent paving results. Designed with a focus on quality and uptime the machine features increased auger height adjustment, automatic track tensioner, screed load device and Soft Dock options, as well as easy servicing. The result is a paver you can depend on to deliver unbeatable mat quality; shift after shift, day after day.

Optimum material flow

Building on the success of the previous generation, the P8820D ABG features an increased auger height adjustment range from 120mm to 200mm. This allows the paver to deliver optimum material flow in the auger channel for a wide range of layer thicknesses up to 300mm.



Pave with confidence

Ensure consistent high-quality results throughout the entirety of your projects thanks to the optional Volvo patented screed load device, which prevents start-off bumps when working at large paving widths. The screed tensioning device locks torsional stiffness across the length of the screed, ensuring a consistent angle of attack across the full screed width.



On the right track

For increased uptime and lower operating costs, the undercarriage includes an automatic track tensioner with hydraulic operation unique to Volvo. This provides more precise and stable steering and reduced wear, while the durable track scrapers further contribute towards a smoother surface finish.



Keep on paving

Get back to work in no time with quick and safe servicing. Improved service access to essential checkpoints via the wide-opening on top of the platform provides ease of maintenance, reduces downtime and minimizes operational costs.





SOFTER DOCKING

Avoid damage to the truck and paver when docking with the Soft Dock option, the only solution on the market which can absorb shocks and continue to oscillate at the same time. Cushioned push rollers absorb impact during docking, reducing the risk of marks behind the screed to ensure the highest levels of mat quality.



MAKE IT SPECIAL

The VB79/89 and VDT-V 79/89 screeds offer greater potential when needing to pave special crown profiles in the road surface, such as specific draining requirements. The extendable screeds feature two additional articulated sections which are adjustable upwards or downwards by 10% (5.7°), creating the possibility to pave irregular profiles with greater ease, less material use and at lower cost.

Ultimate paving results

Paving a width up to 13-meters the P8820D ABG is compatible with an extensive range of high-performance screeds, depending on your operational requirements and preferences. Featuring the Volvo quick coupling system, special profile solutions and optional hydraulically controlled end-gates, you can count on Volvo to deliver ultimate paving results.

Screed excellence

Built on decades of engineering excellence, Volvo screeds deliver the best pavement quality, uniformity and smoothness. With a paving width up to 13-meters, the P8820D ABG can be equipped with a range of Volvo screeds able to handle a variety of materials. Volvo Variomatic screeds have eight guide tubes, four on each hydraulic extension, contributing to a consistent and uniformly compacted smooth surface.



Durable tamper bars

Fully hardened and easy to maintain, you can rely on the specially-designed Volvo tamper bars to perform when it comes to achieving material target density. Depending on application and condition, choose from the single or double tamper screeds to ensure a smooth, uniform surface.



Easy extension

Change screed extensions efficiently and safely and with no special tools required, thanks to the Volvo unique quick coupling system. Assemble a 6.5-meter screed including channel plates, guide plates and auger extensions in just 55 minutes.



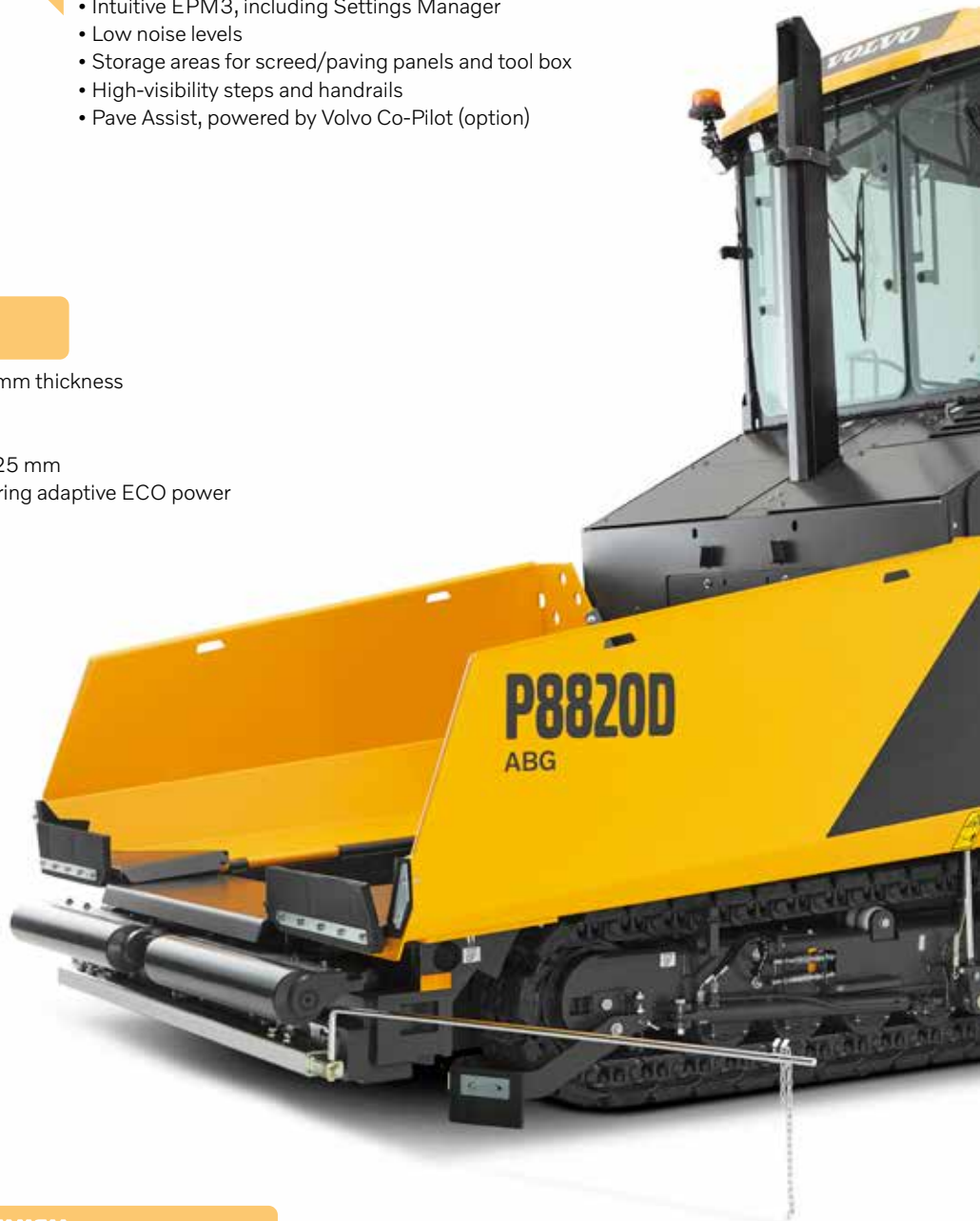
Big paver, big results

PAVE IN COMFORT

- Intuitive EPM3, including Settings Manager
- Low noise levels
- Storage areas for screed/paving panels and tool box
- High-visibility steps and handrails
- Pave Assist, powered by Volvo Co-Pilot (option)

GO BIG

- Pave up to 13 m width and 300 mm thickness
- 1 100 tonnes per hour
- 14.7 t hopper capacity
- Track length 3 120 mm, width 325 mm
- Fuel efficient Volvo engine, featuring adaptive ECO power



FAULTLESS FINISH

- Ballast paving, Cement-Treated Base and Roller Compacted Concrete compatible
- Automatic track tensioner
- 3D levelling system: plug-and-play
- Screed Load (option)
- Soft Dock (option)



SEE MORE, DO MORE

- Flat engine hood
- Side glazed inserts & near-field mirrors
- Smaller electrical boxes for improved rear view
- Home light functionality
- Lighting kits

UPTIME

- Easy access to service points
- Service Interval Manager
- CareTrack – easy machine monitoring
- Care Kits

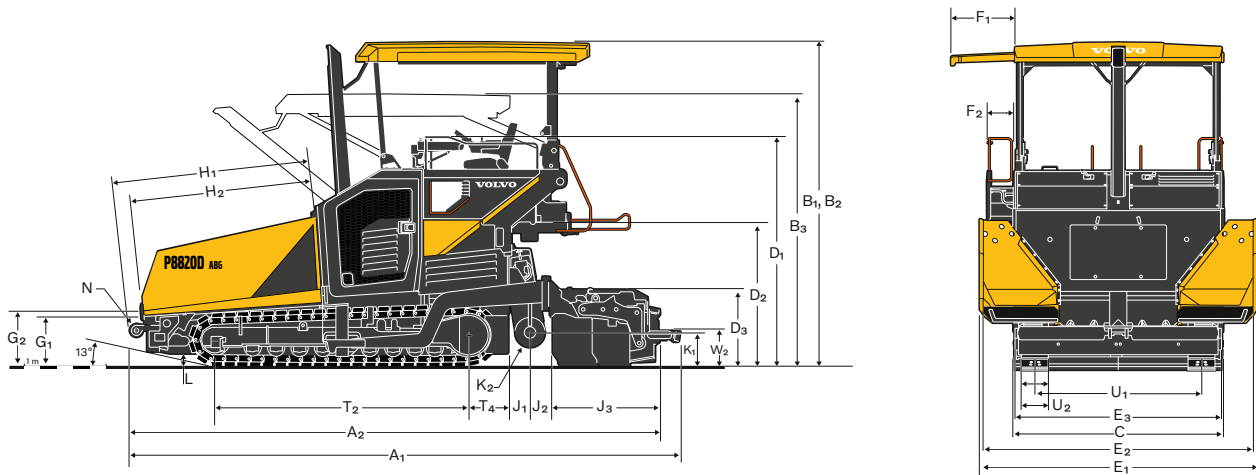
SCREED TECHNOLOGY

- VB79/89 for all profiles, including special crown
- Durable, easy to maintain tamper bars
- Screed tensioning device
- Quick coupling system
- Hydraulic end-gates, featuring power float (option)

Volvo P8820D ABG in detail

Engine		
Manufacturer		Volvo
Model		D8J
Fuel		Diesel
Output	kW	200
	hp	272
at engine speed	r/min	2 000
Fuel tank capacity	l	250
Exhaust emission		EU Stage V
Paving		
Output (theoretical)*	t/h	1 100
Mat thickness (max)	mm	300
Speed		
Paving (max)	m/min	20
Transport (max)	km/h	3.6
Conveyor		
Hopper capacity	t	14.7
Number of conveyors		2
Conveyor speed (max)	m/min	23
Auger		
Speed (max)	1/min	150
Diameter	mm	360
Electrical system		
Battery voltage	V	24
Weight**		
Tractor unit	kg	17 350
Max. allowable gradeability***		
Tractor unit + screed	%	25
Sound Level		
Driver's ear, according to ISO 6396 / ISO 11201		
L _{pA}	dB	84
External, according to ISO 6395 / Directive 2000/14/EC		
L _{WA}	dB	106
Vibration		
Hand-Arm vibration accord. to ISO 5349:2001	m/s ²	<2.5
Whole Body vibration accord. to ISO 2631:1997	m/s ²	<0.5
Notes		
*The actual paving output depends upon mat thickness, paving width and paving speed, and will vary according to conditions prevailing on your jobsite. We can assist you in calculating the paving output for a specific project.		
**Approximative weight, without options. Weight of the tractor includes front flap hopper, standard push rollers, generator, half-full fuel tank and 75kg operator.		
***Applies to screed VB78 2.5-5.0 m. When using extensions the max. allowable gradeability will be reduced.		

Specifications



Dimensions

A ₁	Operating length	mm	6 856
A ₂	Shipping length	mm	6 446
B ₁	Operating height	mm	3 952
B ₂	Height weather roof	mm	3 952
B ₃	Shipping height	mm	3 078
C	Tractor width	mm	2 548
D ₁	Height railing	mm	2 815
D ₂	Deck height	mm	1 782
D ₃	Screed height	mm	937
E ₁	Outer hopper width	mm	3 342
E ₂	Inner hopper width	mm	3 260
E ₃	Width oscillating beam	mm	2 495
F ₁	Extension weather roof	mm	770
F ₂	Seat console extension	mm	320
G ₁	Inner loading height	mm	621
G ₂	Outer loading height	mm	749
H ₁	Hopper length to push roller	mm	2 335
H ₂	Hopper length	mm	2 168
J ₁	Distance rear wall auger centre	mm	275
J ₂	Distance auger centre screed	mm	283
J ₃	Screed depth	mm	1 297
K ₁	Auger height to ground (center)	mm	422
K ₂	Diameter auger	mm	360
L	Ground clearance	mm	166
N	Diameter push roller	mm	160
O	Conveyor width	mm	1 430
Basic screed width VB78+VB79		mm	2 500
Basic screed width VB88+VB89		mm	3 000
Extended screed width VB78+VB79		mm	5 000
Extended screed width VB88+VB89		mm	6 000
T ₂	Track length	mm	3 084
T ₄	Track distance to rear wall	mm	475
U ₁	Track gauge	mm	2 335
U ₂	Track pad width	mm	325
W ₁	Width of walkway	mm	250
W ₂	Height of walkway	mm	428

OPERATING WEIGHTS¹ OF SCREEDS

At working width		2.5 m	4 m	5 m	6 m	6.5 m	7 m	7.5 m	8 m	8.5 m	9 m	10 m	11 m	12 m	12 m (V)	13 m
VB78 ETC	kg	-	-	3 600	-	5 222	-	5 802	6 342	-	6 923	-	-	-	-	-
VDT-V78 ETC	kg	-	-	3 850	-	5 592	-	6 192	6 832	-	7 433	-	-	-	-	-
VB 79 ETC	kg	-	-	4 050	-	5 672	-	6 252	6 792	-	7 373	-	-	-	-	-
VDT-V79 ETC	kg	-	-	4 300	-	6 042	-	6 642	7 282	-	7 883	-	-	-	-	-
VB88 ETC	kg	-	-	-	4 050	-	-	5 772	-	6 352	6 892	7 473	-	-	-	-
VDT-V88 ETC	kg	-	-	-	4 450	-	-	6 242	-	6 842	7 482	-	-	-	-	-
VB89 ETC	kg	-	-	-	4 500	-	-	6 222	-	6 802	7 342	-	-	-	-	-
VDT-V89 ETC	kg	-	-	-	4 800	-	-	6 642	-	7 242	7 882	-	-	-	-	-
MB 122	kg	1 800	3 065	-	4 752	-	5 595	-	6 439	-	7 282	8 126	8 969	9 813	9 863	10 656
VDT 121	kg	2 100	-	-	5 052	-	-	6 317	-	-	7 582	-	-	10 053	10 103	10 896

¹ Including auger Extensions, Channel Plates, End Gates etc., independent of Paver

Equipment

STANDARD EQUIPMENT
Engine
Volvo Diesel engine, EU Stage V
Drive
Electronic drive control
Lifetime lubricated crawler track rollers
Forged and hardened crawler track links
Automatic track tensioner
Material Management
Heavy push rollers
Proportional conveyor sensors
Proportional ultrasonic sensor auger control
Four individual hydrostatic drives for conveyors and augers
Heavy duty auger
Auger quick lock system
Reversible direction of auger rotation
Hydraulic auger height adjustment
Electrics and electronics
Electronic Paver Management (EPM 3)
ECO mode
Settings Manager
Service Interval Manager
Adjustable and revolving main control panel at operator platform
Two adjustable and revolving screed control panels
Battery master switch
Electric switch cabinet
MATRIS
Structure
All-weather roof of GRP (glass-fiber reinforced plastic)
Two seats, laterally extendable
Anti-vandalism kit
Near field mirrors at weather roof
Volvo Green Key
Screed
Split towing arms
Screed lock
Hydraulic crown adjustment VB screeds
Quick coupling system for Vario screeds
Lights
Operator's platform lighting
Home light function
Environmental
Sound insulation

OPTIONAL EQUIPMENT
Material Management
Smart Dock
Soft Dock
Individual operating hopper wings
Hydraulically operated front apron
Protective half shells for auger shaft
Auger extensions and additional auger bearings
Heavy duty conveyor cover
Reversible conveyor
Central lubrication
Electrics and electronics
Four 230V power sockets
Lateral emergency stop
High ambient temperature fan
CareTrack - GSM installation
CareTrack - Satellite installation
Pave Assist (Volvo Co-Pilot system)
Volvo Smart View camera system
Levelling equipment
Transport case for EPM control panels
Structure
Deluxe seats with heating
Front windscreen
Tarpaulin side curtains for weather roof
Custom colours
Electrohydraulic powered weather roof
Front ballast weight
Screed
Screed spacer blocks
Screed assist
Screed anti-climbing lock
Screed load device
Screed tensioning device
Hydraulic height adjustment of extendable screed
Special profiles VB79, VB89
Hydraulically adjustable Power-Float screed end gates
Heatable screed end gate
Foldable screed walkway
Lights
Basic Kit Halogen
Basic Kit LED
Work Plus Kit LED
Full Night Kit LED
Warning beacons LED
Two balloon lights LED
Environmental
High performance spray cleaning unit
Biodegradable hydraulic oil
Fume extractors
Emulsion spraying system

SELECTION OF VOLVO OPTIONAL EQUIPMENT

Smart Dock



Soft Dock



Fume extractors



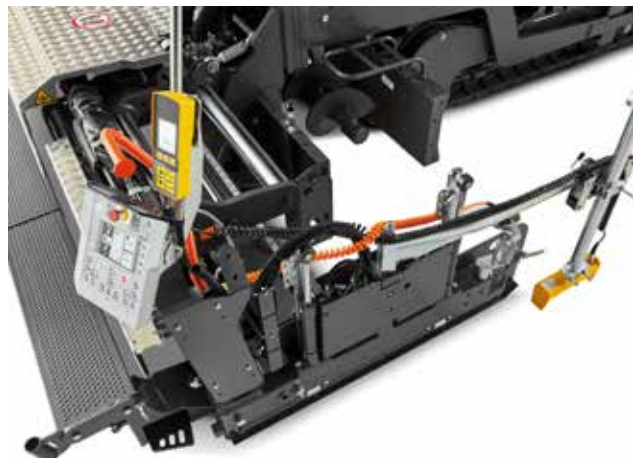
Front windscreen



Powered weather roof



Hydraulic end-gates



Not all products are available in all markets. Under our policy of continuous improvement, we reserve the right to change specifications and design without prior notice. The illustrations do not necessarily show the standard version of the machine.

VOLVO

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