VOLVO



Volvo Wheeled Pavers 1.8-4.5 m 55.4 kW

P2870D ABG

Volvo Construction Equipment

Unrivalled versatility

Go where other pavers cannot with the brand-new P2870D ABG wheeled paver. The most compact paver in the Volvo line-up, this machine is equipped with all the industry leading features of its larger counterparts but designed to deliver unrivalled versatility in small-to-medium paving applications.

All-around talent

Whether accessing narrow jobsites or quickly completing patching work, the P2870D ABG is a talented all-rounder. Featuring power steering, the machine offers a tight (2m) turning radius. Flexible configurations, such as individually operated hopper wings and electro-hydraulic foldable roof, enable you to take on a wider range of paving jobs.



One machine, multiple solutions

The strong P2870D ABG can push a feed truck, while the 9-tonne capacity hopper can also easily be fed by other machinery. Choose between the dual conveyor or the single conveyor, which is unique to Volvo in this size-class and designed to deliver higher output per hour. Proportional conveyor and auger control comes as standard.



Easy to transport

For faster movement around jobsites, the P2870D ABG can travel up to 16km/h. The paver is small enough to be transported alongside a compactor on the same transport vehicle without disassembling the shorter screed extensions and end-gates.



Efficiency at work

Pave for longer without needing to stop for refueling. The efficient Volvo engine and perfectly matched hydraulics deliver the same best-in-class drive system you would expect from the larger Volvo ABG pavers.





MADE FOR THE CITY

Low noise and low emissions make the P2870D ABG the perfect choice when working in inner-city environments. Respecting the local environment is key when working in built-up areas and the low-noise screed contributes to an impressively quiet operation. When it comes to air quality, the efficient 55kW engine delivers low fuel consumption and low CO_2 emissions.

The operator's choice

The P2870D ABG is designed with operators in mind, including many of the state-of-the-art features you would expect to find on larger Volvo ABG pavers. With a fully customizable workstation, easy-to-use controls and superior visibility, you can count on the machine to keep operators comfortable and productive throughout their entire working shift.

Get straight to work

Get to work without delay thanks to Settings Manager, integrated within EPM3, allowing operators to store and retrieve customized settings for individual projects. A fast heating screed, up to 3°C per minute, further supports a fast and hassle-free machine setup.



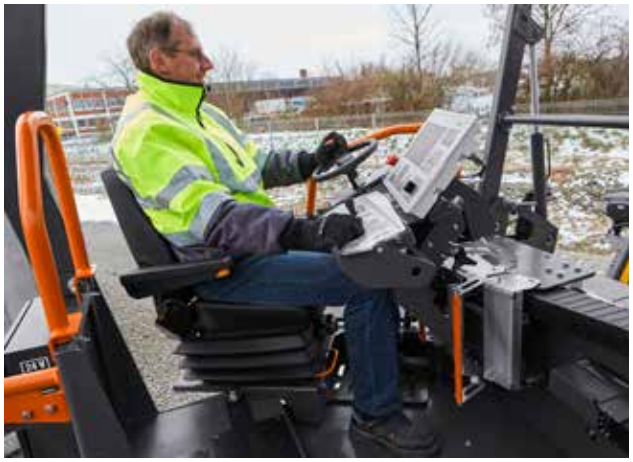
All weather protection

Operators stay protected whatever the weather, thanks to the all-weather roof which provides built-in sound insulation and sliding extensions which cover the operator even when the seat is extended. An optional glazed area to both sides of the operator platform provides further wind protection.



Tailor-made comfort

For a truly personal level of comfort, operators can customize their working position and switch from sitting to standing within seconds. The control panel is capable of sliding across to both sides of the paver as a complete unit, and tiltable 30-degrees in all directions.



Convenient storage

Safely and securely store the paving panel and screed console within the machine, allowing the operator to leave empty-handed at the end of a working shift. The new storage areas are located under the weather roof and at screed level, and for even further convenience everything is locked/unlocked with the ignition key.





TOTAL OPERATOR CONTROL

The Electronic Paver Management (EPM3) system from Volvo is renowned for its operator friendly controls. The convenient layout intuitively guides operators through individual working functions, with the jog-wheel used to quickly select and adjust functions. With a workstation in common with larger Volvo ABG pavers, this is a machine which operators will instantly feel at home in.

The wheel deal

You can count on the P2870D ABG to deliver all the quality and engineering excellence you expect from Volvo. The machine is packed with a range of intelligent features and technology to help you achieve an outstanding paving performance.

Smooth travel

The P2870D ABG is built on a 6x4 wheel drive undercarriage, for comfort and convenience when travelling between jobs. The machine ride levelers are unique in this class, drawing on technology from the larger Volvo ABG pavers, to offer unrivalled ride comfort.



Hydraulic ride levelers

- Unique in this class
- Taken over from larger machines
- Good ground clearance
- Unrivaled traction and stable undercarriage even on bumpy ground.



The need for screed

Unlock the full performance of your paver with a Volvo screed, delivering outstanding paving versatility and a smooth, high quality finished surface. Pave with ease thanks to a host of advanced features built on generations of experience from Volvo ABG, helping you to achieve superior paving results.

New VB40 screed

With the new VB40 screed you can pave up to a 4.5m width. The screed features a tiltable walkway, mechanical or hydraulic screed crown and zero-daily maintenance with lifetime lubricated tamper and vibration bearings. Two possible screed extensions are available: 52.5 cm and 27.5 cm, with the latter allowing machine transportation without disassembling extensions and end-gates.



Smarter end-gate control

With hydraulically-controlled end-gates you eliminate the need for manual adjustments. This optional feature keeps operators safely away from traffic and reduces the time required to ensure a clean side finish. The hydraulic end-gates are no thicker than the manual option, with the slim design leaving less uncompacted material within the screed.

Have it your way

The newly designed screed console can be rotated in any direction, allowing the operator to easily position it according to the requirements of the jobsite and their personal preferences. The new button layout is further optimized for greater convenience and ease of operation.





Paving versatility

All-around talent

- Quiet and clean: low noise, low emissions
- Single or dual conveyor configurations
- Individually operated hopper wings
- 2-meter turning radius
- 9-tonne hopper capacity
- 110-liter fuel tank capacity

The wheel deal

- 6x4 wheel drive
- Ride levelers **A VOLVO EXCLUSIVE**
- 16km/h transport speed



Comfort and convenience

- Fully adjustable operator station
- All-weather roof, optional side glazed areas
- New storage areas
- EPM3: intuitive controls, from bigger pavers



High uptime, lower costs

- Easy battery access, with external panel for jump starting
- 3 lubricating points, low daily maintenance
- Maintenance-free bearings for conveyor
- Diesel Particulate Filter with no SCR and no AdBlue
- CareTrack telematics system

The need for screed

- New VB40 screed: pave up to 4.5 meters
- Slim hydraulically controlled end-gates
- Fully adjustable screed console

Keep on paving

When it comes to successful operations, uptime is key and you can count on the P2870D ABG to keep working harder, for longer. The machine is also designed for quick and easy routine maintenance to keep scheduled downtime to a minimum.

Easy after-treatment

The after-treatment system consists of Diesel Particulate Filter only, meaning there is no SCR and Adblue requirements. This eliminates both the need to replace diesel exhaust fluid and the need for SCR maintenance, helping to keep uptime to a maximum and lower machine running costs.

Easy machine monitoring

With CareTrack you can access a full portfolio of telematics reports, including productivity, health and fuel efficiency, to stay one step ahead of machine condition and performance. Working independently or with the support of your Volvo dealer, you can use data to minimize the risk of unplanned downtime and ensure your machine is performing at its best.







MAINTAINING UPTIME

Complete routine maintenance with speed and ease thanks to a range of features such as drain hoses for fluids, easy battery access with external panel for jump starting and only three lubricating points for the whole machine. The conveyor also has lifetime lubricated, maintenance-free bearings.

Volvo P2870D ABG in detail

Engine		
Manufacturer		Volvo
Model		D3.8H
Fuel		Diesel
Output	kW	55.4
	hp	75.3
at engine speed	r/min	2 200
Coolant		Liquid
Fuel tank capacity	l	110
Exhaust emission		EU Stage V
Paving		
Output (theoretical)*	t/h	330 with single conveyor 230 with double conveyor
Mat thickness (max)	mm	250
Speed		
Paving (max.)	m/min	20
Transport (max.)	km/h	16
Propulsion		
Drive units rear	number	2
Drive units front	number	2
Wheel/Tires		
Rear wheels		
Type		Pneumatic tires
Number	number	2
Dimension		365 / 80 R20
Front steering wheels		
Type		Elastic tires
Number		4
Diameter	mm	457
Width	mm	229
Conveyor		
Hopper capacity	t	9
Number of conveyors		1 or 2
Conveyor speed (max)	m/min	17.9
Auger		
Number of augers		2
Speed (max.)	1/min	72
Diameter	mm	300
Electrical system		
Battery voltage	V	24
Dimensions		
Length with Vario Screed (Walkway up)	mm	4 871
Lenght (Walkway down)	mm	5 320
Width (tractor only)	mm	1 740
Operating height	mm	3 994
Shipping height	mm	2 899
Weight**		
Tractor unit	kg	7 635
Max. allowable gradeability***		
Tractor unit + screed	%	36
Sound Level		
Driver's ear, according to ISO 11201		
L_{pA}	dB	85
Guaranteed sound power level according to ISO 6395 / Directive 2000/14/EC		
L_{WA}	dB	106
Vibration		
Hand-Arm vibration according to ISO 5349:2001	m/s^2	<2.5
Whole Body vibration according to ISO 2631:1997	m/s^2	<0.5

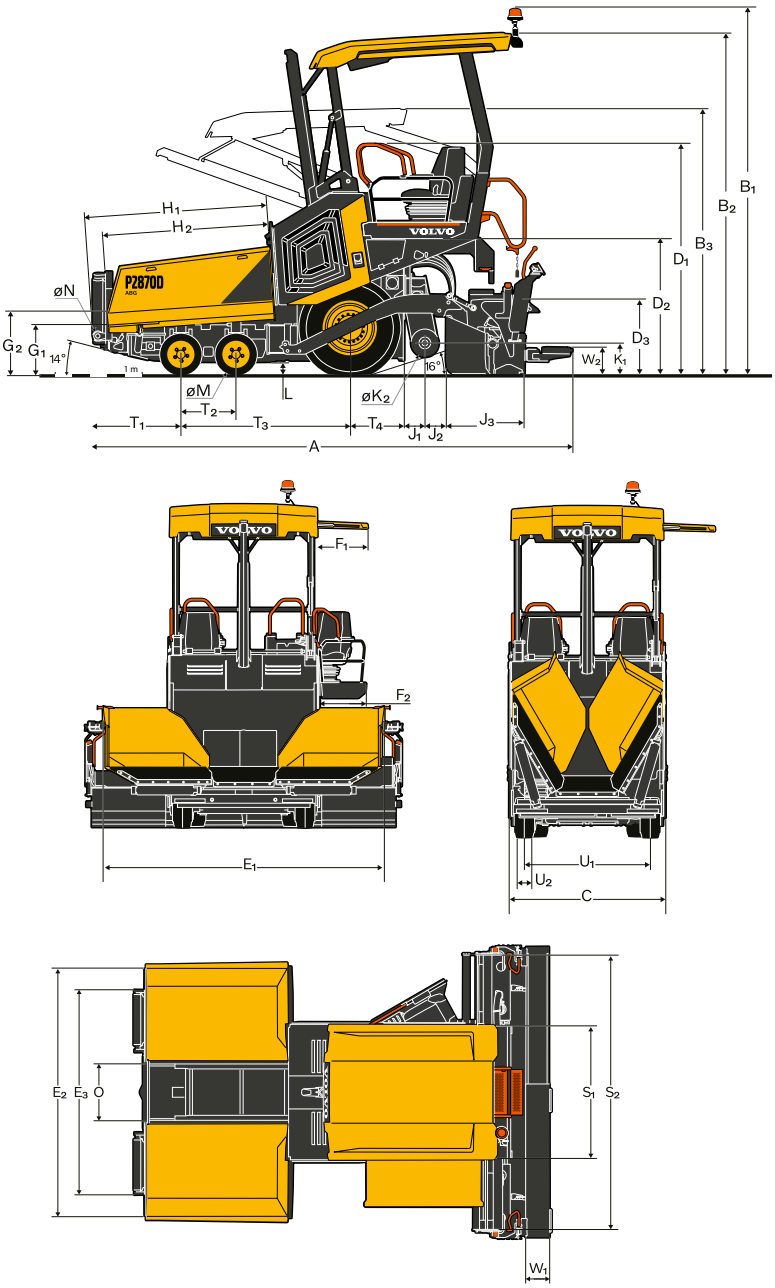
Notes

*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. Tires filled with water, diesel tank half-full, 75 kg operator, standard hopper and weather roof included.
***When using extensions, the maximum allowable gradeability will be reduced.

Specifications

DIMENSIONS

Description		Unit	P2870D ABG
A	Operating length	mm	5 320
B_1	Operating height	mm	3 995
B_2	Height weather roof	mm	3 720
B_3	Shipping height	mm	2 899
C	Tractor width	mm	1 740
D_1	Height railing	mm	2 523
D_2	Deck height	mm	1 493
D_3	Screed height	mm	877
E_1	Outer hopper width	mm	3 240
E_2	Inner hopper width	mm	3 103
E_3	Width oscillating beam	mm	2 559
F_1	Extension weather roof	mm	580
F_2	Seat console extension	mm	542
G_1	Inner loading height	mm	552
G_2	Outer loading height	mm	701
H_1	Hopper length to push roller	mm	1 985
H_2	Hopper length	mm	1 805
J_1	Distance rear wall auger centre	mm	225
J_2	Distance auger screed	mm	230
J_3	Screed depth	mm	850
K_1	Auger height to ground (center)	mm	350-90
K_2	Diameter auger	mm	300
L	Ground clearance	mm	145
M	Diameter wheel	mm	459
N	Diameter push roller	mm	160
O	Conveyor width	mm	710
S_1	Basic screed width	m	1.8
S_2	Extended screed width	m	3.5
T_1	Front wheel/track to push roller	mm	960
T_2	Distance front wheels	mm	600
T_3	Track length/wheel base	mm	1 833
T_4	Track/wheel distance to rear wall	mm	589
U_1	Wheel/track gauge wheels/ tracks centre to centre	mm	1 410
U_2	Track pad width/wheel width	mm	260
W_1	Width of walkway	mm	300
W_2	Height of walkway	mm	295



OPERATING WEIGHT[1] OF SCREED IN KG

At working width	3.5 m	4.0 m	4.5 m
VB 40 ETC min Mechanical crown control and standard end-gates	1 638	1 977	2 186
VB 40 ETC max Hydraulic crown and hydraulic end-gates	1 720	2 058	2 267

[1] Including auger extensions, channel plates, end-gates.

Equipment

STANDARD EQUIPMENT
Engine
Volvo diesel engine EU Stage V
Drive
Electronic drive control
Independent rear wheel drives
Driven front axle
Hydraulic ride levelers
Load dependent efficient drive system
Active steering
Rear wheels without ballast
Material Management
Proportional conveyor control
Reversible direction of auger rotation
Single conveyor
Mechanical auger height adjustment
Oscillating cross beam with two mounting positions
160 mm push roller
Electronics
Electronic Paver Management (EPM 3)
Settings Manager
Service interval manager
Adjustable and slideable control station
Two adjustable and revolving screed control panels
Battery master switch
Electric switching cabinet
Back-up alarm
Tool kit
MATRIS support
Structure
Manual folding all-weather roof Glass-fibre Reinforced Plastic (GRP)
Two swing out seats
Storage compartment under weather roof
Near field mirrors at weather roof
Volvo Green Key
Screed
VB 40 ETC 1.80 - 3.50 m
Mechanical crown adjustment
Screed lock
Split towing arms
Lights
Operator's platform lighting
Home light function
Environmental
Sound insulation für engine compartment and operator station

OPTIONAL EQUIPMENT
Material Management
Two independent conveyors
Reversible conveyor
Individual operating hopper wings
Mechanically operated front apron
Hydraulically operated front apron
Push-roller D160 plus 100 mm more space
Electronics
Lateral emergency stop
Additional socket 230V 50Hz
Traction isolator switch
CareTrack GSM / Satelite
Levelling equipment
Case for control panels
Structure
Deluxe seats with heating and USB charger
Electrohydraulic powered weather roof
Seat side windshield
Screed
Screed anti-climbing lock
Screed Assist
Hydraulic end-gates (VB 40)
Hydraulic heated end-gates (VB 40)
Hydraulic crown adjustment
Paving width reduction
Edging shoes 3/5/7/12 cm
Lights
Basic kit halogen lights
Basic kit LED lights
Full night kit LED
Warning beacon LED
Road travel lighting right-hand traffic
Road travel lighting left-hand traffic
Environmental
Extractor for bituminous fumes for with and without roof
Integrated emulsion spraying system with hose reel
High performance spray cleaning unit
Biodegradeable hydraulic oil and Bypass filter
Miscellaneous
Homologation Italy
Ballasted rear wheels

SELECTION OF VOLVO OPTIONAL EQUIPMENT

Electro-hydraulically foldable roof



Choice of single or dual conveyor



Hydraulic crown control



Storage area at screed level



Traction isolator switch



LED light packages



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.

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Ref. No 20057781_F / English-21 / 2022.08 / PTA / Volvo, Global Marketing