

V O L V O



Volvo Wheeled Pavers 2.5-9 m 129 kW

P6870D ABG

Volvo Construction Equipment

Versatile performer

Experience the ultimate in paving versatility with the P6870D ABG.

The highly maneuverable paver combines a compact design with outstanding power and traction, helping you to achieve outstanding results across a wide range of paving applications.

Pave with confidence

A unique hydraulic self-levelling suspension system provides three-point balance for additional machine stability. The suspension further enhances machine traction and smooth paving when working in poor or uneven ground conditions.



Made to maneuver

When working in tight spaces, the unique steering system provides outstanding maneuverability with an inner turning radius of just 2.5m. The smart system provides instant and precise steering, helping to reduce paving time and effort when working in confined jobsites.



Easy mobility

Travel with speed and ease across the work site thanks to a travelling speed of up to 20km/h. When working between sites, the compact dimensions of the P6870D ABG make it easy to transport.



Power to perform

The premium Volvo engine combines high torque and low RPM to deliver superior performance and efficiency. For reduced fuel consumption, the adaptive ECO Mode matches engine output to jobsite requirements.





DRIVING RESULTS

Superior traction and control are assured, whatever the ground or paving conditions, with the Volvo drive system. Available as 6x6 or 6x4, the large rear wheels deliver high drive force, while the load dependent torque control system adjusts power between the front drive wheels to prevent wheel spin.



EASY MACHINE MONITORING

With the optional CareTrack telematics system you can stay ahead of unscheduled downtime and ensure your machine is being operated efficiently. Remotely receive reports on machine location, usage, productivity, fuel consumption and health to help identify improvement areas and optimize your operation.

Ultimate paving versatility

Superior traction

- Choice of drive concept: 6x6 or 6x4
- Large wheels for high drive force
- Load dependent torque control prevents wheel spin
- Hydraulic self-leveling suspension system with three-point balance

Versatile performer

- 2.5m inner turning radius
- 20km/h travel speed
- 13t capacity hopper
- Volvo engine: high torque at low RPM, adaptive ECO Mode

Paving made easy

- Intuitive Electronic Paver Manager system
- Integrated levelling equipment
- Hopper lock from the platform
- Pave Assist, powered by Volvo Co-Pilot (Option)



State-of-the-art servicing

- Ground level access to fuel tank, emulsion tank and AdBlue filler neck
- Central lubrication point, accessed from the platform
- CareTrack: easy machine monitoring
- Care Kits

Every angle in view

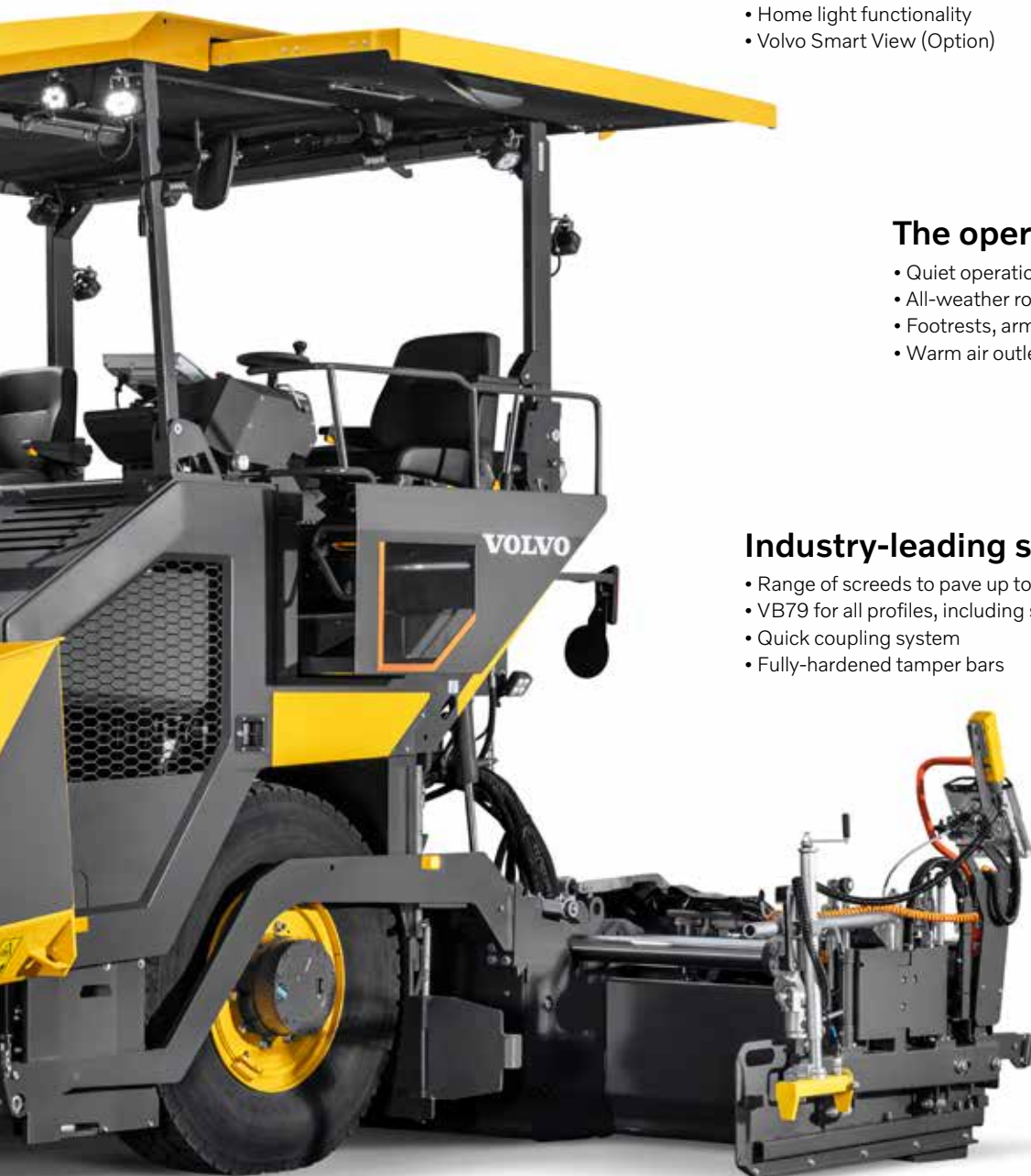
- Flat engine hood
- Glazed areas at the side of the platform
- Near-field mirrors
- Home light functionality
- Volvo Smart View (Option)

The operator's choice

- Quiet operation
- All-weather roof with sliding extensions
- Footrests, armrests, extendable seats
- Warm air outlet, cup holder, USB ports

Industry-leading screed technology

- Range of screeds to pave up to 9 meters
- VB79 for all profiles, including special crown
- Quick coupling system
- Fully-hardened tamper bars



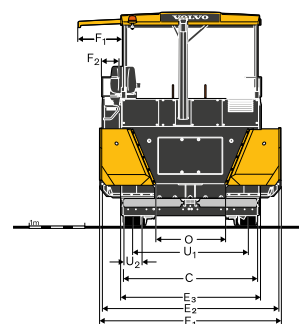
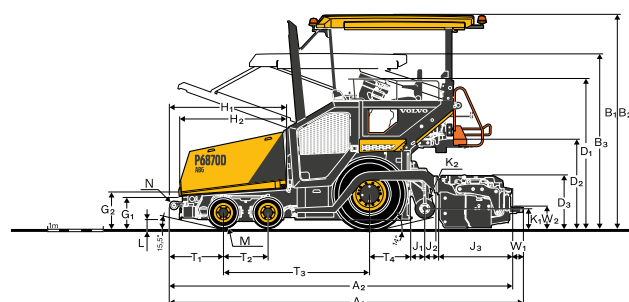
Volvo P6870D ABG in detail

Engine		
Manufacturer		Volvo
Model		D6J
Fuel		Diesel
Output	kW	129
	hp	175.4
at engine speed	r/min	2 000
Coolant		Liquid
Fuel tank capacity	l	200
Exhaust emission		EU Stage V
Electrical system		
Battery voltage	V	24
Paving		
Output (theoretical)*	t/h	700
Mat thickness (max.)	mm	300
Speed		
Paving (max.)	m/min	40
Transport (max.)	km/h	20
Propulsion		
Drive units rear	number	2
Drive units front	number	4
Wheel/Tires		
Rear wheels		
Type		Pneumatic tires
Number	number	2
Dimension		385/95R25
Front steering wheels		
Type		Elastic tires
Number		4
Diameter	mm	580
Width	mm	340
Conveyor		
Hopper capacity	t	13
Number of conveyors		2
Conveyor speed (max.)	m/min	21.5
Auger		
Number of augers		2
Speed (max.)	1/min	90
Diameter	mm	360
Dimensions		
Length with Vario Screed (Walkway up)	mm	6 152
Length	mm	6 402
Width	mm	2 548
Height	mm	3 837
Height (transport)	mm	2 970
Weight**		
Tractor unit	kg	14 300
Max. allowable gradeability***		
Tractor unit + screed	%	25
Sound Level		
Driver's ear, according to ISO 11201		
L _{pA}	dB	84
Guaranteed sound power level according to ISO 6395 / Directive 2000/14/EC		
L _{WA}	dB	104
Vibration		
Hand-Arm vibration according to ISO 5349:2001	m/s ²	<2.50
Whole Body vibration according to ISO 2631:1997	m/s ²	<0.50
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, fuel tank half-full, 75 kg operator and weather roof included.		
***Applies to screed VB 78 2.5-5.0 m. When using extensions the maximum allowable gradeability will be reduced.		

OPERATING WEIGHTS¹ OF SCREEDS

Working width	5.0 m	6.0 m	6.5 m	7.5 m	8.0 m	8.5 m	9.0 m
VB781	kg	3 600	-	5 222	5 802	6 342	-
VB791	kg	4 050	-	5 672	6 252	-	-
VB881	kg	-	4 050	-	5 772	-	6 352
VB891	kg	-	4 500	-	6 222	-	-

* Including auger extensions, channel plates, end gates, etc...



DIMENSIONS

A ₁	Operating length	mm	6 402
A ₂	Shipping length	mm	6 152
B ₁	Operating height	mm	3 837
B ₂	Height weather roof	mm	3 837
B ₃	Shipping height	mm	2 970
C	Tractor width	mm	2 548
D ₁	Height railing	mm	2 700
D ₂	Deck height	mm	1 605
D ₃	Screed height	mm	938
E ₁	Outer hopper width	mm	3 256
E ₂	Inner hopper width	mm	3 176
E ₃	Width oscillating beam	mm	2 495
F ₁	Extension weather roof	mm	770
F ₂	Seat console extension	mm	317
G ₁	Inner loading height	mm	592
G ₂	Outer loading height	mm	688
H ₁	Hopper length to push roller	mm	2 118
H ₂	Hopper length	mm	1 939
J ₁	Distance rear wall auger centre	mm	275
J ₂	Distance auger centre screed	mm	265
J ₃	Screed depth	mm	1 297
K ₁	Auger height to ground (center)	mm	350-60
K ₂	Diameter auger	mm	360
L	Ground clearance	mm	145
M	Diameter wheel	mm	540
N	Diameter push roller	mm	160
O	Conveyor width	mm	1 270
S ₁	Basic screed width VB78+VB79	m	2.5
	Basic screed width VB88	m	3.0
S ₂	Extended screed width VB78+VB79	m	5.0
	Extended screed width VB88	m	6.0
T ₁	Front wheel/track to push roller	mm	970
T ₂	Distance front wheels	mm	800
T ₃	Track length/wheel base	mm	2 625
T ₄	Track/wheel distance to rear wall	mm	720
U ₁	Wheel/track gauge	mm	2 076
U ₂	Track pad width/wheel width	mm	340
W ₁	Width of walkway	mm	305
W ₂	Height of walkway	mm	434

Equipment

STANDARD EQUIPMENT

Engine

Volvo Diesel engine, EU Stage V

Drive

Electronic drive control
Independent rear wheel drives
Driven front axle 2x4
Hydraulic ride levelers
Load dependent efficient drive system
Active steering
Rear wheels with ballast

Material Management

Heavy push rollers
Proportional conveyor control
Proportional ultrasonic auger control
Four individual hydrostatic drives for conveyors and augers
Reversible direction of auger rotation
Hydraulic auger height adjustment

Electrics and electronics

Electronic Paver Management (EPM 3)
Back-lit controls
ECO mode adaptive
Settings Manager
Service Interval Manager
Steering angle indication
Head of material indication
Adjustable and slidable control station
Two adjustable and revolving screed control panels
Battery master switch
Electric switch cabinet
Back-up alarm
Fuel theft detection
Tool kit
MATRIS support

Structure

Manual folding all-weather roof Glass-fibre Reinforced Plastic (GRP)
Two seats, laterally extendable
Integrated vandalism protection
Near field mirrors at weather roof
Volvo Green Key
Storage compartments under both seats
Cup holder
USB charging sockets

Screed

Split towing arms
Screed lock
Hydraulic crown adjustment VB screeds
24V sockets at screed distribution box

Lights

Operator's platform lighting
Home light function
Lamp levelling scale LED

Environmental

Sound insulation for engine compartment and operator station

OPTIONAL EQUIPMENT

Drive

Driven front axle 4x4

Material Management

Heavy duty auger
Soft Dock
Smart Dock
Individually 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

Integrated levelling
Four 230V power sockets
Lateral emergency stop
Traction isolator switch
CareTrack - GSM installation
CareTrack - Satellite installation
Pave Assist (Volvo Co-Pilot system)
Volvo Smart View camera system
Levelling equipment
Transport case for EPM 3 control panels

Structure

StVZO-Kit 11,5t for Germany
StVZO-Kit 12t for Austria
Homologation 12t for Switzerland
Homologation for Italy
Electrohydraulic powered weather roof
Deluxe seats with heating
Front windscreen incl. wiper and washer system
Tarpaulin side curtains for weather roof
Custom colours
Front ballast weight

Screed

Screed assist
Screed tensioning device
Screed spacer blocks
Hydraulic height adjustment of extendable screed
Special profiles VB79, VB89
Hydraulically adjustable Power-Float screed end gates
Heatable screed end gate

Lights

Basic Kit Halogen
Basic Kit LED
Work Plus Kit LED
Full Night Kit LED
Warning beacons LED
Two balloon lights LED
Road travel lighting left-hand traffic
Road travel lighting right-hand traffic

Environmental

Extractor for bituminous fumes
Emulsion spraying system incl. hose reel
High performance spray cleaning unit
Biodegradable hydraulic oil

SELECTION OF VOLVO OPTIONAL EQUIPMENT

Fume extractors



Hydraulic end-gates



Smart Dock



Levelling equipment – compatible with major 3D systems



Lighting kits



Powered weather roof



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.