



Volvo Construction Equipment

P6820C ABG

Volvo Tracked Pavers 2.5-10.0 m 142 kW



A passion for performance

At Volvo Construction Equipment, we're not just coming along for the ride. Developing products and services that raise productivity – we are confident we can lower costs and increase profits for industry experts. Part of the Volvo Group, we are passionate about innovative solutions to help you work smarter – not harder.

Helping you to do more

Doing more with less is a trademark of Volvo Construction Equipment. High productivity has long been married to low energy consumption, ease of use and durability. When it comes to lowering life-cycle costs, Volvo is in a class of its own.

Designed to fit your needs

There is a lot riding on creating solutions that are suited to the particular needs of different industry applications. Innovation often involves high technology – but it doesn't always have to. Some of our best ideas have been simple, based on a clear and deep understanding of our customers' working lives.



You learn a lot in 180 years

Over the years, Volvo has advanced solutions that have revolutionized the use of construction equipment. No other name speaks Safety louder than Volvo. Protecting operators, those around them and minimizing our environmental impact are traditional values that continue to shape our product design philosophy.

We're on your side

We back the Volvo brand with the best people. Volvo is truly a global enterprise, one that is on standby to support customers quickly and efficiently – wherever they are.

We have a passion for performance.



Volvo Trucks



Renault Trucks



Mack Trucks



UD Trucks



Volvo Buses



Volvo Construction Equipment



Volvo Penta



Volvo Financial Services

Power and precision

Volvo tracked pavers are built tough for a powerful performance in every application – whether you're paving steep gradients or thick layers of material. The P6820C ABG boasts an ultra smooth paving system which delivers results in all applications. Trust Volvo tracked pavers to increase your performance and profits.

Smart power mode

When paving conditions do not require full power, the operator can select smart power mode on the Main Control Unit (MCU) to automatically reduce engine speed to 1 600 rpm. This results in substantially lower noise and up to 30% reduced fuel consumption.



Power, low noise

Volvo engine and components work together to produce significantly lower noise, reducing operator fatigue and noise pollution.



Balanced design

The paver has good weight distribution over the large track contact area to provide maximum traction and paver stability. Weight and traction balanced with engine power delivers optimum paving performance.



Hydraulic track tensioner

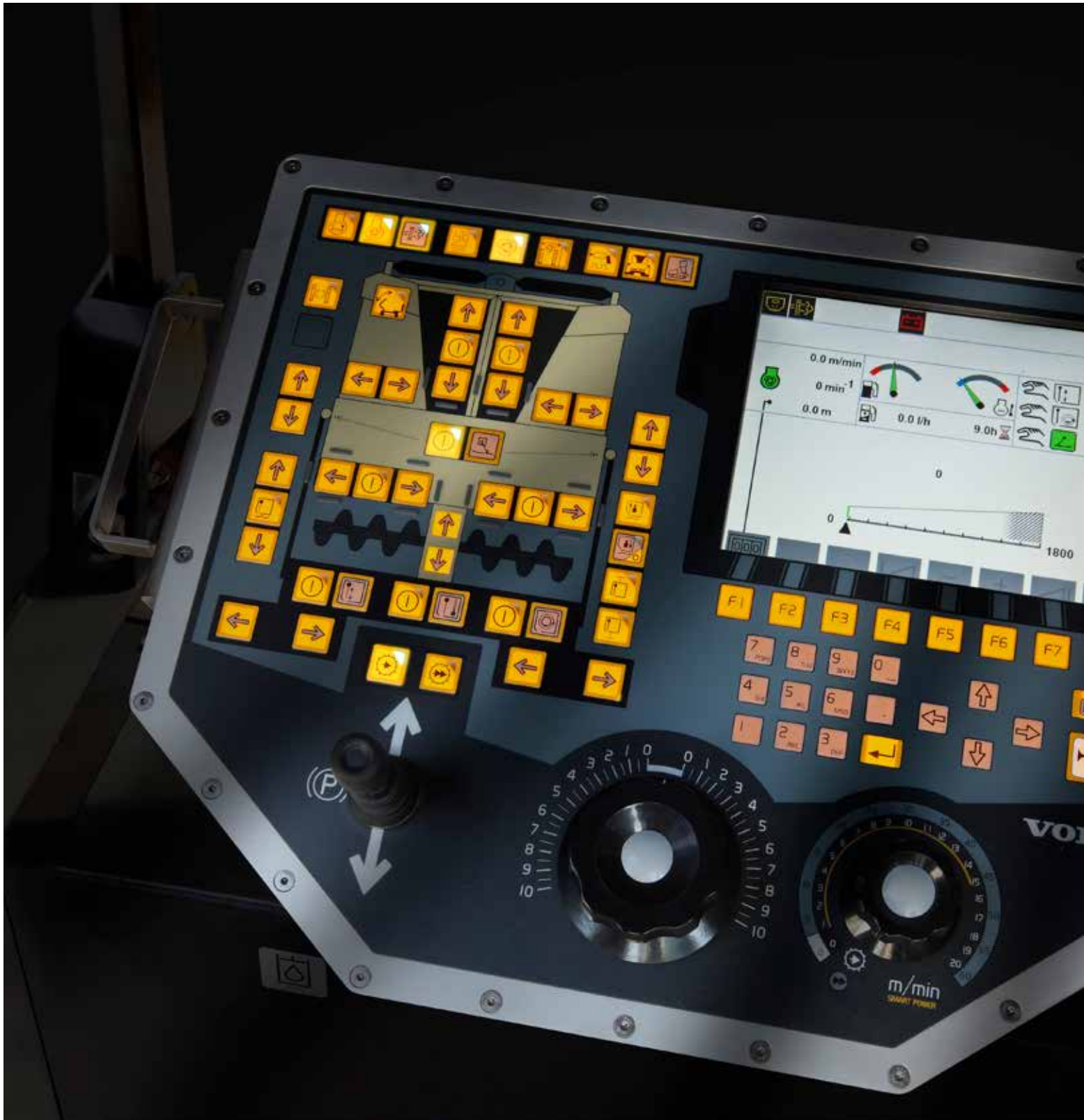
The automatic, full time track tensioning system maintains correct track tension for smooth operation - while reducing track wear and downtime.





PRECISE CONTROL

The simple, easy to use control dial on the control panel directs the electro-hydraulic system to deliver unsurpassed paving control for smooth operation in any application. Ideal for paving on curves where precision is crucial and on straight stretches where it delivers sharp edges.



MAIN CONTROL UNIT (MCU)

Quickly and easily access structured information via Volvo's industry-leading large, color display with backlit controls. The unique design gives operators total control at their fingertips – allowing instant adjustment to all paving functions.

Volvo puts you in control

Be in complete control with your paver from the operator seat with Volvo's unique, industry-leading EPM 2 (Electronic Paving Management) technology, designed for simple operation and maximum efficiency. Intelligent paving at its best.

Intuitive display

On the left hand side of the MCU the paver functions are displayed as they are located on the machine. This allows the operator to quickly locate and adjust settings, such as screed temperature and engine parameters.



Fuel monitoring

The control panel's fuel monitoring system records and displays fuel consumption by day or period, so you can plan refueling and calculate operational costs.



On/off button

The automatic on/off button allows the operator to stop and restart paving with the same settings, no matter how much time has passed – increasing efficiency and ensuring consistent results.



Settings manager

Store proven paving settings from previous jobs for re-use on similar, future jobs – saving time, increasing productivity and ensuring optimum paving quality.

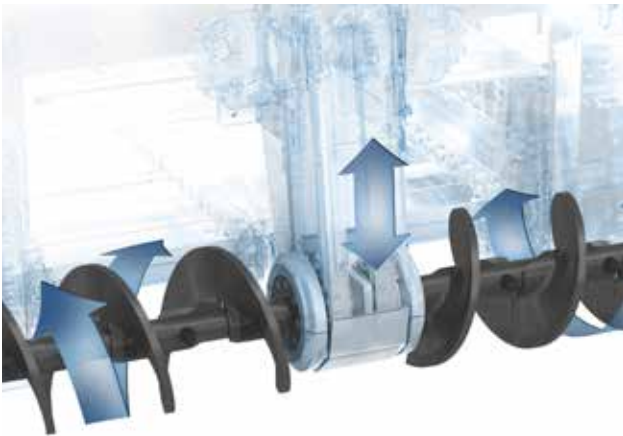


Excellent visibility

Sit in the operator seat and benefit from near to 360° visibility – putting you in control of your entire paving operation where you can observe constant material flow. The large hopper design holds more material and allows continuous paving. Independent hydrostatic drives for conveyors and augers give the same thickness and quality over the entire paved surface.

Material flow

Independent, reversible hydrostatic drives for both conveyors and height adjustable augers vary the amount of flow to maintain a constant head of material evenly distributed in front of the screed.



Visible delivery

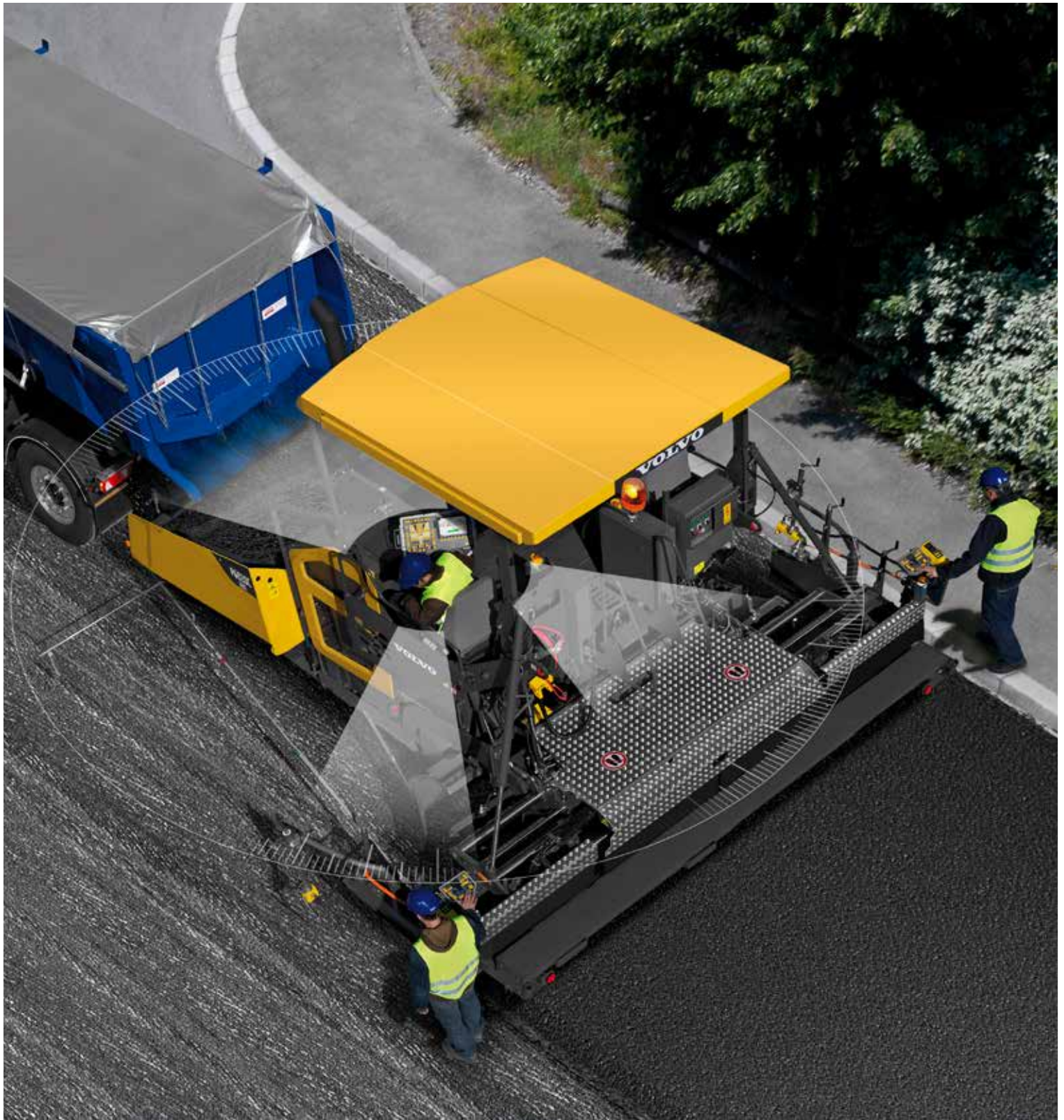
The P6820C ABG paver is designed to provide the operator with views of material flow from the hopper to the conveyors, auger channel and end gates.



Increased width

The standard P6820C ABG paver is designed to work efficiently in widths from 3-6 meters. This can be increased to 10 meters by selecting additional options.





ALL-ROUND VISIBILITY

Get a near 360° view of the whole paving process for maximum safety and productivity. The comfortable operator seats can be extended over the side of the paver for ultimate visibility.

The perfect paving package

ALL-ROUND VISIBILITY

All-round visibility and extendable operator seat for a 360° view of the whole paving process.

MCU

Large control panel with color screen allows you to quickly adjust paver settings.

Engine

Volvo's quiet and efficient Stage IIIA / Tier 3 diesel engine gives you more power while consuming less fuel.

SERVICEABILITY

All daily maintenance checks can be made quickly, safely and easily from the operator platform.

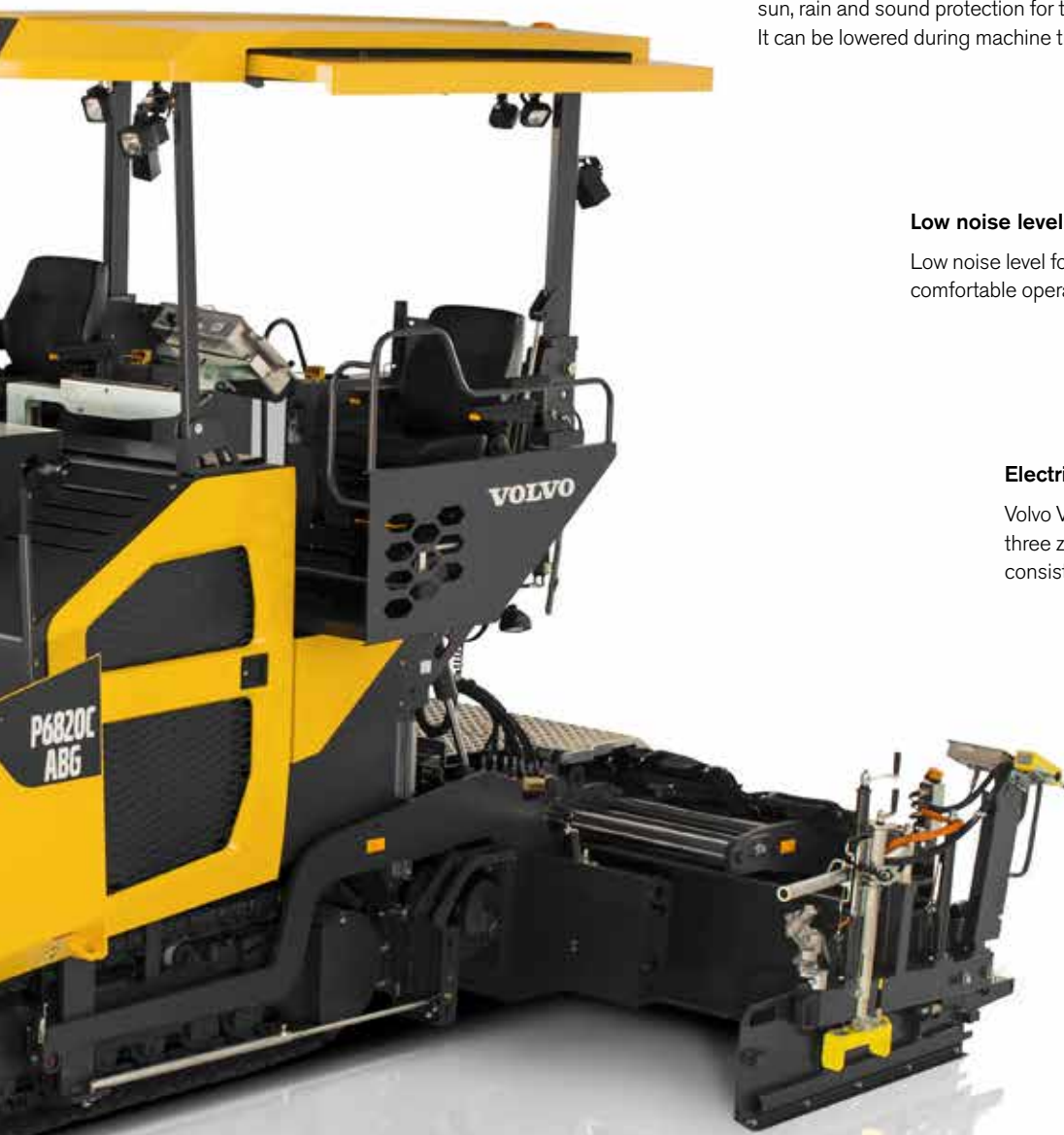
Large hopper capacity

Large hopper capacity supports continuous paving.

Hydraulic track tensioner

Automatic track tensioner maintains correct track tension and reduces wear for smooth operation.





Canopy

The canopy, with extending sunshade, provides sun, rain and sound protection for the operator. It can be lowered during machine transportation.

Low noise level

Low noise level for safe and comfortable operation.

Electric screed heating

Volvo Variomatic screeds have a three zone heating system to provide consistent and reliable heating.

SCREEDS

Achieve the best paving quality and smoothness with Volvo screeds.

SMOOTH PAVING

Electronically controlled, independent travel drives for each crawler track offers smooth paving in all operating conditions.

Access doors

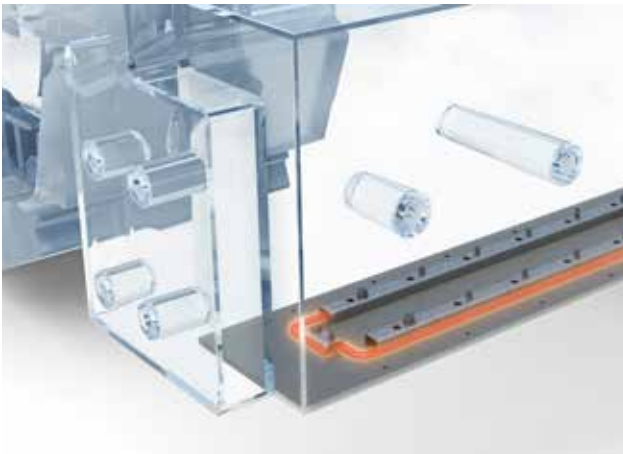
Vertically hinged, lightweight side maintenance doors provide excellent access and longer life.

Industry-leading performance

Volvo screeds have been designed to handle a wide range of materials and give you supreme smoothness and uniformity. With the versatile P6820C ABG you can pave from 2.5-10 meters. Experience new levels of paving quality with Volvo screed technology.

Electric heating

Volvo Variomatic screeds have a three zone heating system which efficiently delivers quick, consistent heat across the full length of the screed.



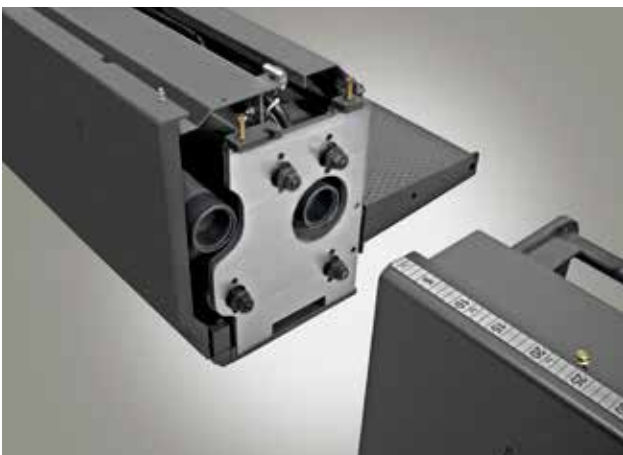
SCU

Two, conveniently located Screed Control Units (SCU) allow the operators to manage the functions of the screed as well as the material flow.



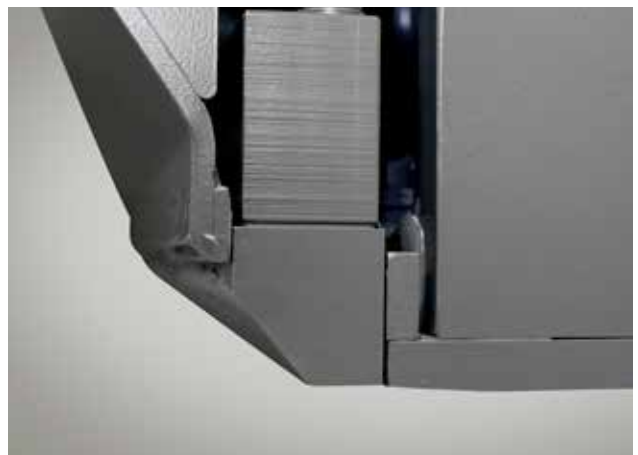
Quick coupling

Extensions are added or removed in minutes, with no special tools required, thanks to Volvo's unique quick coupling system – saving you time and money.



Tamper bar

Newly designed, strong, through-hardened tamper bar for improved durability and reliability.





SCREED PERFORMANCE

Volvo Variomatic screeds provide customers with hydraulically extending widths and add on options for paving up to 9 meters. Available in single or dual tamper systems. With manual screeds the P6820C ABG offers a max paving width of 10 meters.



SUPPORT NETWORK

Volvo offers customers access to its first-class dealer support network. A factory trained technician, in a Volvo dealer service truck, with Genuine Volvo Parts will be ready to service your paver at your convenience. Trust Volvo to maintain your uptime.

Your uptime is our priority

At Volvo we're not just committed to providing you with a quality paver. We know that on site, time means money and that's why we have a unique, global dealer support network to ensure your machine's availability during its entire lifetime. And because Volvo pavers are 100% Volvo, you'll enjoy full service, warranty and parts support for the complete machine from one location. Volvo is your one-stop-shop for all your paver and paving support needs.

Engine maintenance

Open one compartment from the deck to complete all daily maintenance checks quickly, safely and easily. The Volvo engine allows our dealer to provide a full service and meet all your service needs.



Service manager

From the MCU, the operator receives reminders and alerts when maintenance and service checks are due and overdue. The system also records when checks are performed.



Paver care kits

Using Volvo Care Kits for wear parts ensures part life and performance. Benefit from 100% Genuine Volvo Parts in a single package for optimum reliability.



Customer Support Agreements

Customer Support Agreements offer service and maintenance with maximum cost control and minimum downtime. The flexible system caters for a range of needs from total repair and maintenance to an inspection program covering vital parts and functions.



Specifications

Specifications		
Engine (diesel)		
Manufacturer		Volvo
Model		D6E
Output	kW	142
	hp	193
at engine speed	r/min	2 000
Coolant		Liquid
Fuel tank capacity	l	240
Exhaust emission		Stage IIIA / Tier 3
Paving		
Output (theoretical)*	t/h	700
Mat thickness (max)	mm	300
Speed		
Paving (max)	m/min	20
Transport (max)	km/h	3.3
Undercarriage		
Length	mm	3 000
Width (track plates)	mm	300
Conveyor		
Hopper capacity	t	13.5
Number of conveyors		2
Conveyor speed (max)	m/min	23
Auger		
Speed (max)	l/min	80 / 90 (HD)
Diameter	mm	360
Electrics		
Battery voltage	V	24
Dimensions		
Length	mm	6 092
Width	mm	2 550
Height (transport)	mm	2 917
Weight**		
Tractor unit	kg	15 000
Max. allowable gradeability***		
Tractor unit + screed	%	25
* The actual paving output depends upon the mat thickness, the paving width and paving speed and will vary according to paving conditions prevailing on your jobsite. Please approach us and we will be pleased to assist you in calculating the paving output for your particular paving project.		
** All weights are approx. weights without options. Weight of the tractor: tires filled with water, Diesel tank half-full and weather roof included.		
*** Applies to screed VB 78 2.5-5.0 m. When using extensions the max. allowable gradeability will be reduced.		
Sound Level		
Sound Pressure Level at Driver's Ear, acc. to ISO 11201		
LpA	dB(A)	82 (with VB78, VB79, VB88,VB89 screeds)
Guaranteed Sound Power Level, acc. to Directive 2000/14/EC		
LwA	dB(A)	105 (with VB78, VB79, VB88,VB89 screeds)

Screed Specifications



Robust screed design

A rugged screed frame and two large support tubes for the extensions work together to deliver a rigid screed assembly. The tubes also provide torsional stiffness along with the frame and low tow point - which allows for consistent paving.

Tamper bar and vibration

Single or dual tamper bar technology delivers high compaction densities behind the screed. Together with vibration quality and smoothness is achieved.

Heating

Volvo screeds feature independent temperature control of the main screed and extensions as well as tamper bar heating.

Crown adjustment

A hydraulic powered crown feature with remote control enables quick and simple adjustments.

Grease distribution

Optimum lubrication is provided via a central greasing system, reducing maintenance requirements.

Height adjustment

A hydraulic height adjustment device accurately adapts the height of the extensions to match the main screed.

OPERATING WEIGHTS¹ OF SCREEDS IN KG

At working width	P6820C										
	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
VB 78 ETC	-	-	3 600	-	5 222	-	5 782	6 342	-	6 903	-
VB 78 GTC	-	-	3 680	-	5 342	-	5 912	6 502	-	7 073	-
VDT-V 78 ETC	-	-	3 720	-	5 442	-	6 032	-	-	-	-
VDT-V 78 GTC	-	-	3 800	-	5 562	-	6 172	-	-	-	-
VB 88 ETC	-	-	-	3 820	-	-	5 542	-	6 102	6 662	-
VB 88 GTC	-	-	-	3 900	-	-	5 662	-	6 232	6 822	-
VDT-V 88 ETC	-	-	-	4 450	-	-	6 272	-	-	-	-
VDT-V 88 GTC	-	-	-	4 520	-	-	6 382	-	-	-	-
MB 122	1 800	3 065	-	4 752	-	5 595	6 017	6 439	-	7 282	8 126

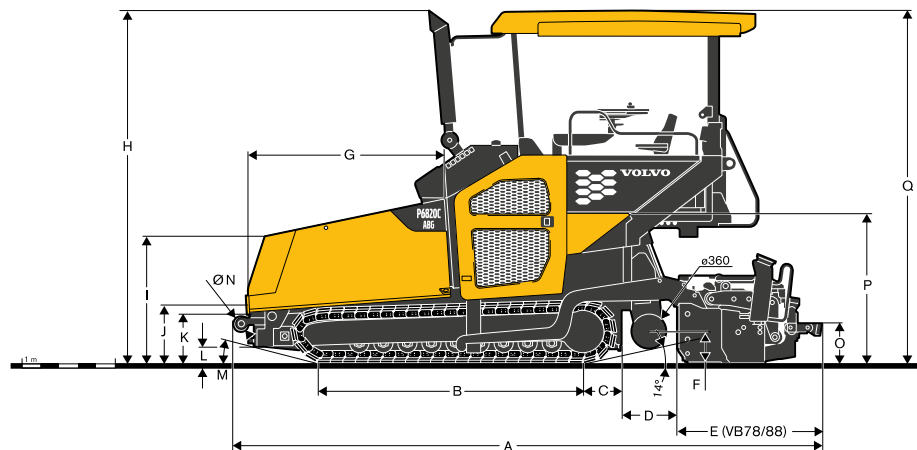
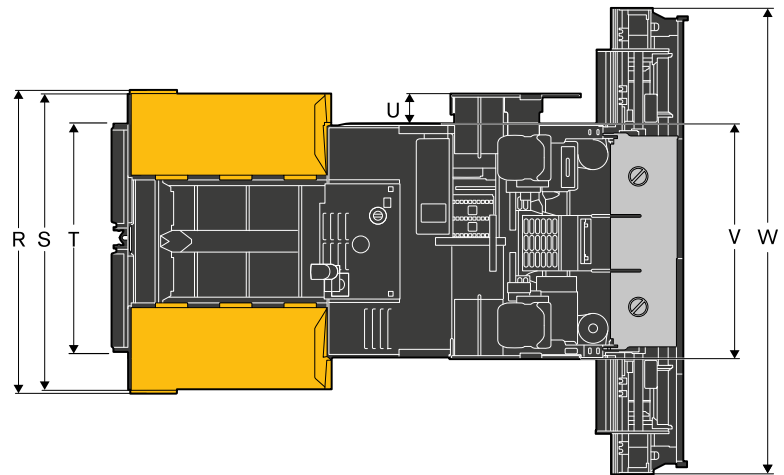
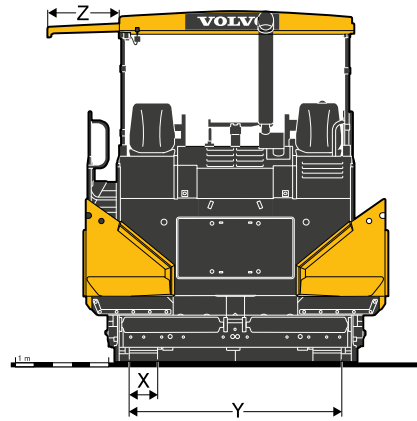
¹ Including auger extensions, channel plates, end gates, towing arms rear, etc.

Specifications

DIMENSIONS

P6820C

Unit		mm
A		6 388
B		3 000
C		415
D		530
E		1 615
F		360 ± 60
G		2 170
H		3 793
I		1 373
J		608
K		525
L		155
M		13°
N		110
O		438
P		1 614
Q	up	3 785
	down	2 917
R	open	3 252
	closed	2 454
S		3 168
T		2 495
U		320
V		2 500/ 3 000
W		5 000/ 6 000
X		300
Y		2 269
Z		770



Equipment

STANDARD EQUIPMENT

Engine

Volvo Diesel engine, Stage IIIA / Tier 3

Drive

Electronic drive control

Lifetime lubricated crawler track rollers

Forged and hardened crawler track links

Automatic track tensioner

Material Management

Four individual hydrostatic drives for conveyors and augers

Hydraulic auger height adjustment

Reversible direction of auger rotation

Proportional auger speed control

Electronics

Electronic Paver Management (EPM 2)

Smart power

Settings Manager

Service Interval Manager

Adjustable and revolving control unit

Electric switch cabinet

Battery master switch

Two external control panels for the paving screed

Structure

Two seats, laterally extendable

Anti-vandalism kit

Screed

Split towing arms

Hydraulics for Vario screeds with tamper and vibration

Screed lock

Lights

Four working lights

Driver's compartment lighting

Environmental

Sound insulation

OPTIONAL EQUIPMENT

Material Management

Individual operating hopper wings

Hydraulically operated front apron

Reversible conveyor

Proportional Ultrasonic Sensor auger control according to material requirements

Central lubrication

Electronics

Levelling systems

Auxiliary control panel

Additional sockets 230V

Structure

Deluxe seats with heating

GRP (Glass-fibre reinforced plastic) all-weather roof

Front windscreen (only in conjunction with all-weather roof)

Tarpaulin for sides

Special paintwork (according to RAL colour code, excluding metallic paintwork)

Screed

Hydraulics for Vario screeds with double tamper and vibration & man. adjust. screeds

Screed anti-climbing lock

Screed tensioning device

Screed assist

Screed load device

Hydraulic height adjustment of extendable screeds

Lights

Xenon working lights (only in conjunction with all-weather roof)

Two additional working lights (rear)

Auger lighting

Warning beacons

Environmental

Extractor for bituminous fumes

Emulsions spraying system

Heavy-duty spray cleaning gun

Biodegradable hydraulic oil

SELECTION OF VOLVO OPTIONAL EQUIPMENT

Hydraulic height adjustment for extendable screed



Screed tensioning device



Individual hopper wings



Central lubrication system



Additional working lights (light package)



Auxiliary control panel



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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