

V O L V O



Volvo Tracked Pavers 10.0 m 140 kW

# P7920 ABG

Volvo Construction Equipment



# Welcome to our world

Welcome to a world of industry leading machinery. A world where imagination, hard work and technological innovation will lead the way towards developing a future which is cleaner, smarter, and more connected. A world supported by the enduring values of the Volvo Group. A world of stability, sustainability and innovation. A world which we put our customers at the heart of.

Welcome to the world of Volvo Construction Equipment – we think you're going to like it here.

## The road to success

Our range of road machinery combines the heritage of the Ingersoll Rand and ABG brands with the engineering excellence of Volvo. The result is a line-up of Volvo pavers and compactors which achieve an unrivalled level of quality, in both paving and compaction applications.

Building on our proud history, we continue to innovate our products to offer customers the best solutions for their operation. Our Compact Assist and Pave Assist products are just two examples of how we are developing intelligent solutions to ensure our machines deliver world-class performance and results long into the future.





## Solutions for you

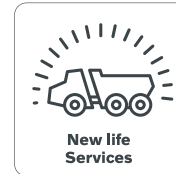
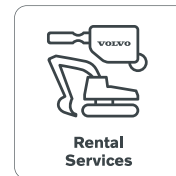
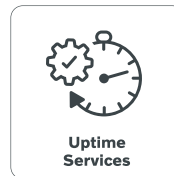
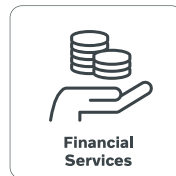
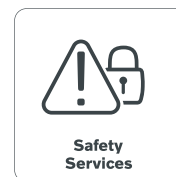
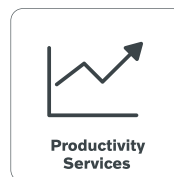
Our industry leading machines are just the start of your relationship with Volvo. As your partner, we have developed an extensive range of additional solutions to help you improve uptime, boost productivity and reduce costs.

### Designed for your business

Structured across nine blocks, our portfolio of products and services are designed to complement your machine's performance and boost your profitability. Simply put, we offer some of the best guarantees, warranties and technological solutions in the industry today.

### There when you need us

Whether you're buying new or used, our global network of dealers and technicians offer around-the-clock support, including machine monitoring and world-class parts availability. It's the basis of everything offered by Volvo Services, so you can be confident we've got you covered right from the start.



# BUILDING TOMORROW

# Perfect 10

Building on the success of the proven B-Series, the new P7920 ABG features the very latest technology to deliver the ultimate in paving performance. With easy set-up of both the paver and screed, heavy-duty auger drive and the ability to effectively pave up to 10-meters in a single pass, this is the perfect paver for high-volume and multi-lane highway projects.

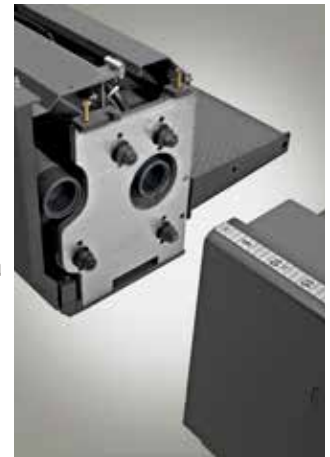
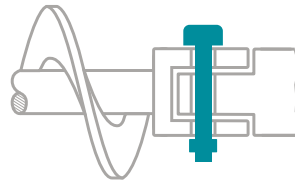
## High production auger drive

The purpose-made tractor unit combines perfectly with the screed and high-capacity auger drive to deliver optimum quality and quantity. Featuring two gearboxes – one each side – combined with a slim design, the auger smoothly conveys material and prevents segregation.



## Speedy screed set-up

Set up the screed to the desired working width in no time at all thanks to the quick coupling extension box and quick lock auger shaft, enabling fast screed assembly and disassembly.



## 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 further supports a quick and hassle-free machine setup.







# ONE PASS PERFORMANCE

Pave up to 10 meters with one paver and one pass. Increase your productivity and complete projects more quickly thanks to the wide Volvo screed, featuring screed load device and screed tensioning device.

# Control in comfort

The perfect combination of comfort and performance. The user-friendly P7920 ABG features highly intuitive and straightforward controls, allowing operators to quickly and easily achieve optimum results. Features such as the EPM3 operator console, low noise environment and outstanding visibility enable a safe and productive operator performance, shift after shift.

## Quietly powerful

Achieve high paving performance at low noise levels with the P7920 ABG. By matching the engine output to the actual requirement, the adaptive ECO Mode and optimized RPM reduce noise levels – benefiting the paving crew and local community alike. For a comfortable work environment, the canopy offers built-in sound insulation.



## Every angle in view

From the operator platform, experience unhampered visibility around the paver, auger channel and screed. The engine hood design offers superb visibility to the hopper, allowing the operator to check material supply and flow at a glance. Side mirrors, a sliding seat and new glazed area to both sides of the platform provide even greater visibility, further optimizing overall efficiency and jobsite safety.

## See more, do more

Pave with precision day or night with six standard LED lights, as well as auger lighting, and screed lighting, for increased visibility and safety. The home lights, located below the weather roof, illuminate the platform for three minutes once the main switch is turned on and after the ignition is turned off.







# INTUITIVE OPERATION

In the P7920 ABG, the already renowned operator friendly controls of the previous B-series have been taken to the next level with the latest generation Electronic Paver Management (EPM3) system. The intuitive layout guides operators through individual working functions, with the jog-wheel used to quickly select and adjust functions. Background illumination ensures a user-friendly operation both day and night.

# Boost productivity

Built with high-performance components, including a new CEV Stage IV compliant Volvo engine, P7920 ABG is designed to boost productivity while lowering operating costs. Based on over 75 years of paving experience and innovative engineering, this paver delivers performance which lasts.

## Durably efficient

Optimize uptime and machine lifetime with the Volvo powertrain and improved hydraulic system, offering unrivalled durability and performance. The powertrain works in harmony with the hydraulic system, which is perfectly matched to the Volvo engine. The result is high performance, low fuel consumption, less emissions and reduced noise.



## Faultless finish

Rely on the durably designed P7920 ABG paver for a consistent, high quality paving surface. With features such as the automatic track tensioning system and narrow auger drive box, you can count on this paver to deliver outstanding results, complemented further by the optional screed load/tensioning devices and long auger shafts.



## Efficiently cool

Keep your paver cool even in extreme temperatures and altitudes. The cleverly-designed engine compartment and hood provide ample space for continuous air circulation from the hydraulically powered adaptive cooling fan, allowing the engine and hydraulics to cool effectively. This feature also reduces noise, lowers fuel consumption, boosts component lifetime and optimizes efficiency of the hydraulic system.







# POWER TO PERFORM

Improve fuel efficiency and reduce emissions with the premium Volvo engine and perfectly matched hydraulics, delivering high torque at low RPM, for a superior performance. Built by Volvo for Volvo, the engine has been proven throughout the world and has been especially adapted to meet CEV Stage IV emission requirements. Reduce fuel consumption and extend component life with built-in features, such as the adaptive ECO Mode, which matches engine output to jobsite requirements.

# Superb screeds

Take the performance of your P7920 ABG to the next level with high performance and operator-friendly Volvo screeds. With effective paving widths up to 10 meters, and features including electric heating, screed extension quick coupling and easy-to-assemble guide plate system, you can count on Volvo screeds to deliver a smooth, high quality surface.

## Engineered for efficiency

Built on decades of engineering excellence, Volvo screeds deliver the ultimate in paving quality. Effective in paving widths up to 10 meters, the P7920 ABG is compatible with a range of industry-leading screeds, depending on customer requirements and application. Volvo Variomatic screeds have eight guide tubes, four for each hydraulic extension, which contribute to a consistent, uniformly compacted smooth surface.

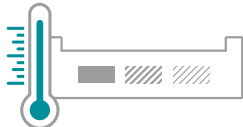


### Low-profile screed design

Operators can easily climb on the screed, resulting in a more comfortable operator experience and less fatigue. The low-profile design allows the screed operators an easy observation and control of the material flow.

### Effective heating system

For effective heating, Variomatic screeds have a dual heating bar arrangement, ensuring uniform heat distribution over the entire screed. Volvo screeds are designed with 3 heating zones, with the temperature of each zone adjusted individually. Heating elements for the tamper bar are easily replaced.

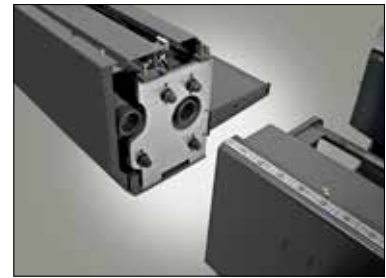






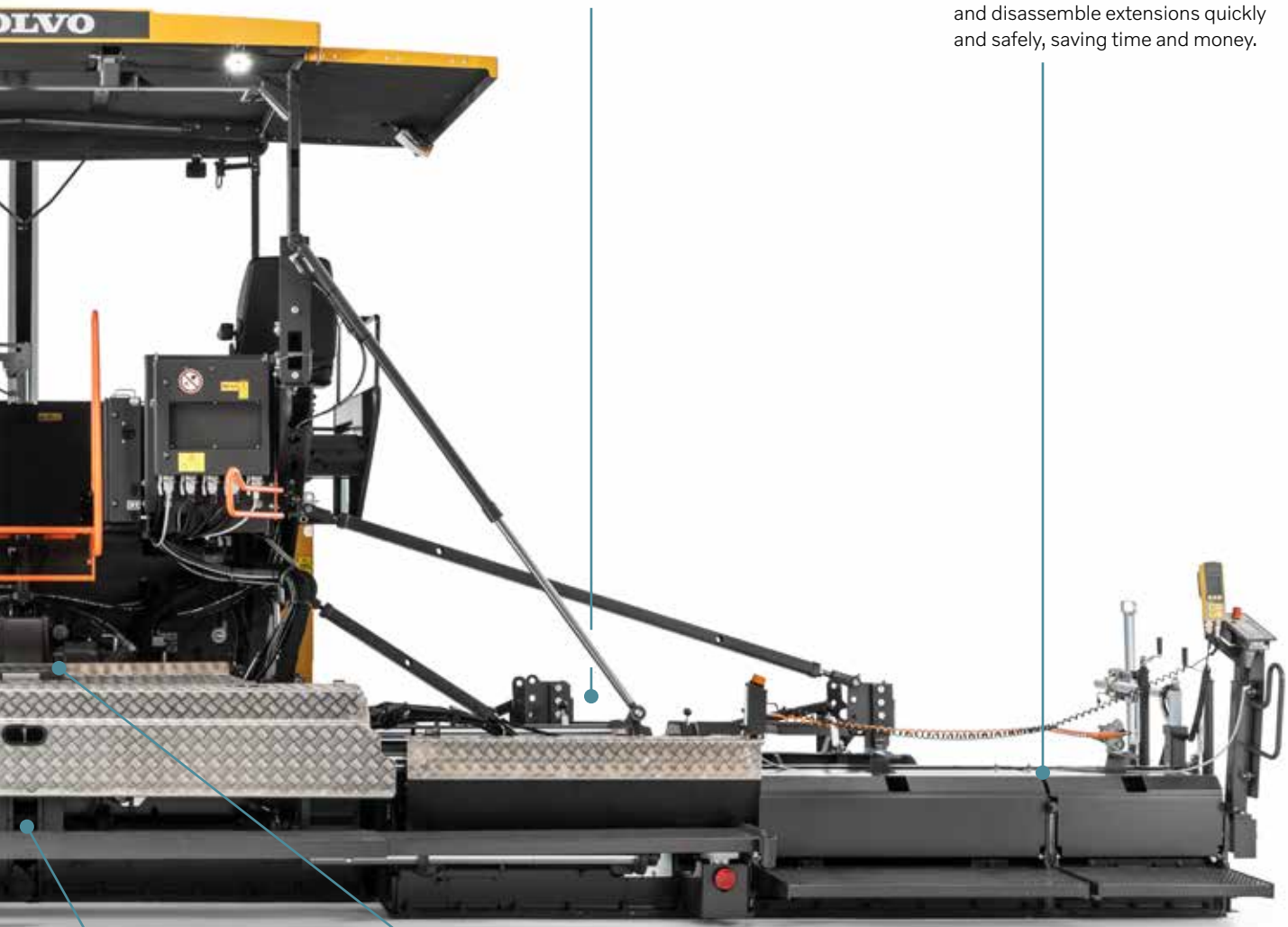
**Assemble with ease**

The Volvo guide plate system is designed for simple assembly. With weight optimized components and functional braces, one person can easily do the job.



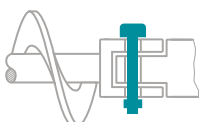
**Quick extensions**

Add or remove screed extensions in minutes with no special tools required and thanks to Volvo's quick coupling system. This unique feature enables paving crew members to assemble and disassemble extensions quickly and safely, saving time and money.



**Quick lock auger shaft**

Easy and quick set-up due to only one bolt. In the long version, better material flow and reduced segregation.



**Hydraulic screed crown adjustment**

Quickly and easily adjust the screed to match the desired road profile finish.



# Keep on paving

The P7920 ABG benefits from a host of features designed to support quick and easy routine maintenance. The result is a paver which stays out on the jobsite, performing at its best, for longer – maximizing uptime and reducing operating costs.

## Easy servicing

Complete routine maintenance with speed and ease thanks to a range of features including fluid drain hoses and an automatic greasing system, which are all accessible from the ground-level. New vertically hinged service doors also provide more convenient and spacious access to main service points. A single “green” key provides quick access to every ignition and service hatch across any Volvo D-series paver.



## Easy engine access

A wide opening on top of the platform provides easy access to the engine compartment, with direct access to oil-level dip-stick and filters.



## Service Interval Manager

Keep on top of servicing requirements with Service Interval Manager. A dedicated display on the EPM3 alerts the operator to required or scheduled maintenance, which is recorded on the system. Additionally, with the fuel-theft prevention system, you will be notified if fuel has been stolen, helping you avoid unwanted and costly downtime.



## Total support

Maintain productivity and machine uptime with our range of widely available, tested and approved Genuine Volvo Parts – all backed by Volvo warranty. Your Volvo dealer can help you stay on track, offering flexible maintenance and repair options, as well as planned servicing, to extend the life of your paver.







# EASY MACHINE MONITORING

Stay ahead of unscheduled downtime and check that your machine is being operated efficiently with CareTrack telematics. The system provides powerful information including machine location, usage, productivity, fuel consumption and more, which can be used to identify areas for improvement, helping you to keep uptime to a maximum and achieve optimum results.

# Make easy work of tough tasks

## Easy to operate

- Electronic Paving Management 3: intuitive controls
- Settings Manager
- Hydraulic auger height adjustments
- Hydraulic screed crown adjustments
- Simple guide plate assembly

## See more, do more

- Flat engine hood
- Side mirrors, sliding seat
- Glazed area to both sides of the platform
- 6 LED lights, auger and screed lighting
- Home lights: platform illumination

## Volvo Services

- Genuine Volvo Parts
- Maintenance and Repair agreements
- Oil Analysis
- Care Inspections
- Financial Services





## Easy servicing

- Service Interval Manager
- Wide opening on top of the platform: direct access to filters
- Ground-level access to automatic greasing system and fluid drain hoses
- Easily replaced screed tamper bar heating elements

## Long-lasting performance

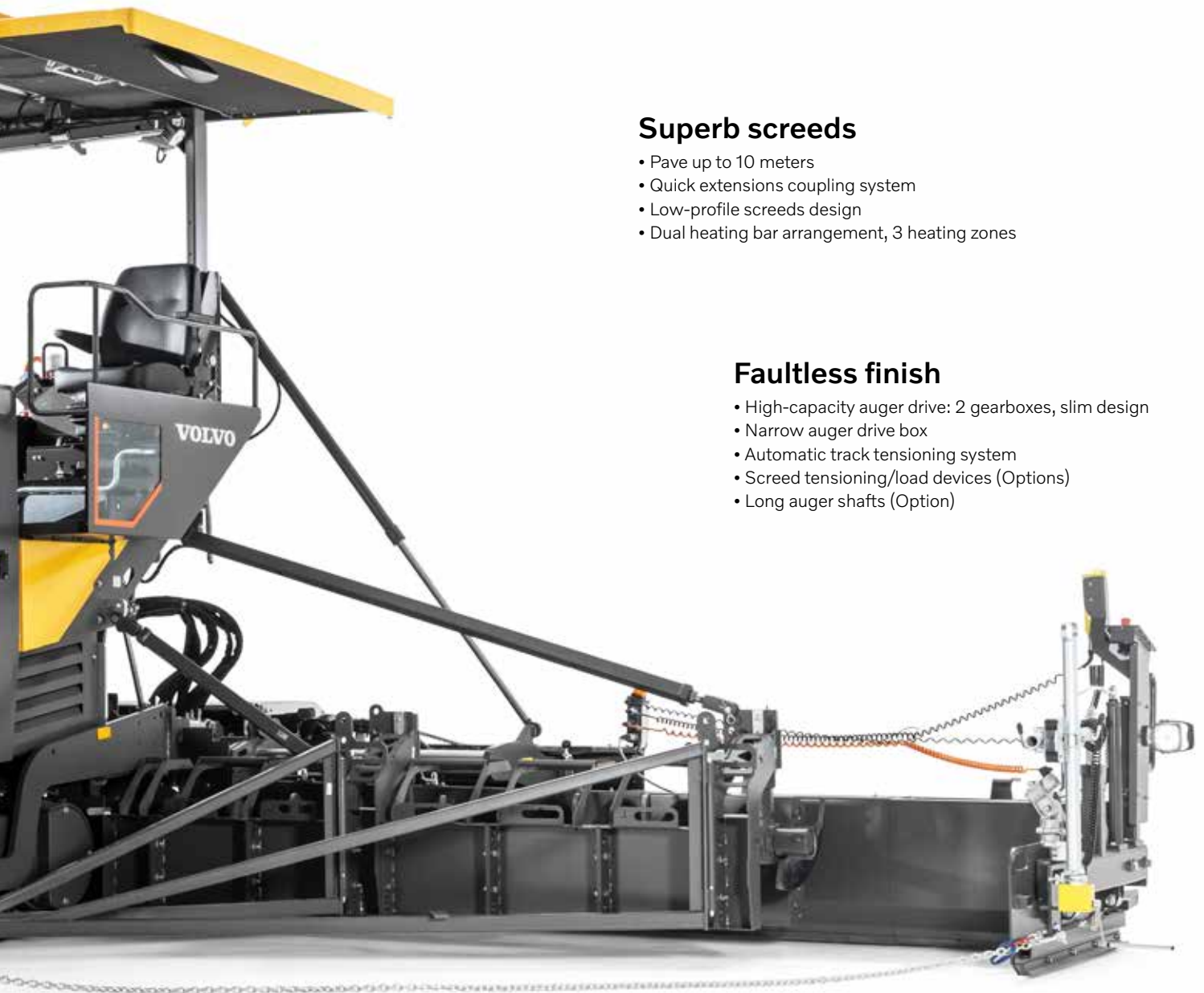
- Fuel efficient, low-noise Volvo engine, featuring ECO mode
- Volvo matched powertrain
- Hydraulically powered adaptive cooling fan
- Fully-hardened screed tamper bar

## Superb screeds

- Pave up to 10 meters
- Quick extensions coupling system
- Low-profile screeds design
- Dual heating bar arrangement, 3 heating zones

## Faultless finish

- High-capacity auger drive: 2 gearboxes, slim design
- Narrow auger drive box
- Automatic track tensioning system
- Screed tensioning/load devices (Options)
- Long auger shafts (Option)



# Volvo P7920 ABG in detail

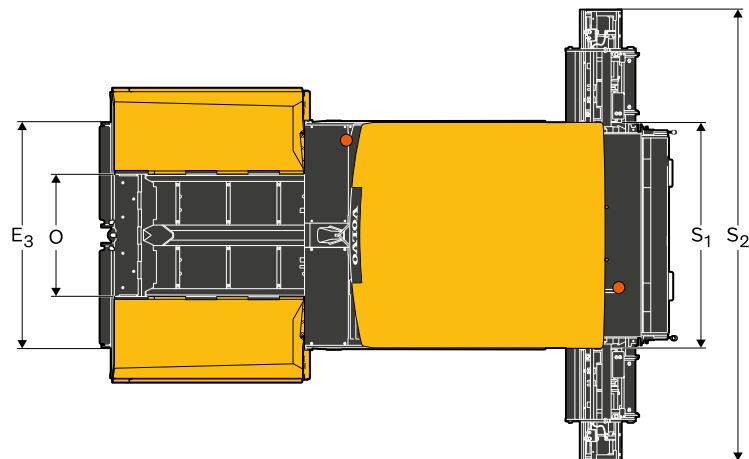
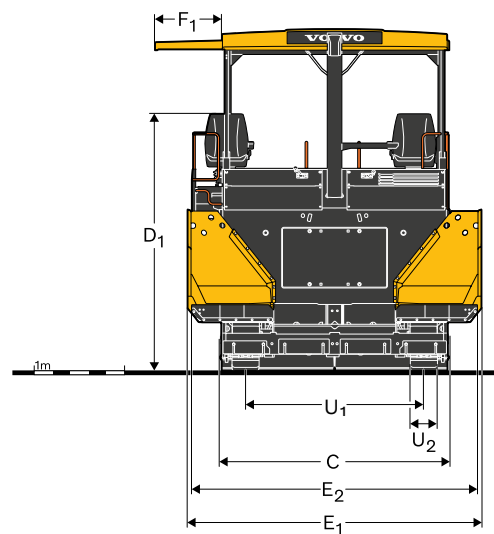
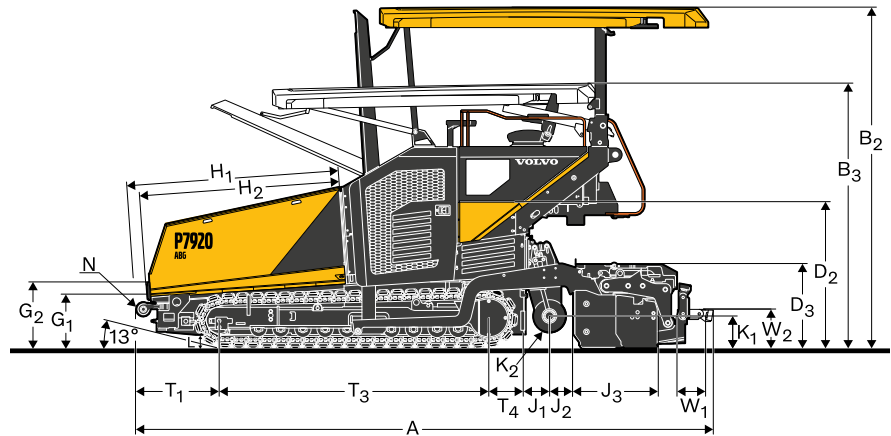
<b>Engine</b>		
Manufacturer		Volvo
Model		D6J
Fuel		Diesel
Output	kW	140
	hp	193
at engine speed	r/min	2 200
Coolant		Liquid
Fuel tank capacity	l	250
Exhaust emission		CEV 4
<b>Electrical System</b>		
Battery voltage	V	24
<b>Paving</b>		
Output ( theoretical)*	t/h	700
Mat thickness (max)	mm	300
<b>Speed</b>		
Paving (max)	m/min	20
Transport (max)	km/h	3.3
<b>Undercarriage</b>		
Length	mm	3 000
Width (track plates)	mm	300
<b>Conveyor</b>		
Hopper capacity	t	13.5
Number of conveyors		2
Conveyor speed (max)	m/min	21
<b>Auger</b>		
Number of augers		2
Speed (max)	1/min	100
Diameter	mm	360
<b>Dimensions</b>		
Length with Vario Screed (Walkway up)	mm	6 072
Length	mm	6 237
Width	mm	2 548
Height	mm	3 783
Height (transport)	mm	2 916
<b>Weight**</b>		
Tractor unit	kg	14 320
<b>Max. allowable gradeability***</b>		
Tractor unit + screed	%	25
<b>Vibration</b>		
Hand-Arm vibration according to ISO 5349:2001	m/s <sup>2</sup>	<2.5
Whole Body vibration according to ISO 2631:1997	m/s <sup>2</sup>	<0.5
<b>Sound Level</b>		
Driver's ear, according to ISO 6396 / ISO 11201		
L <sub>pA</sub>	dB	83
<b>Notes</b>		
*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 tractor without screed, with standard hopper, with fuel tank half full, with continuous towing arms, with push roller D=160 mm and incl. 75 kg driver.		
***Applies to screed VB 78 2.5-5.0 m. When using extensions the max. allowable gradeability will be reduced.		



# Specifications

## DIMENSIONS

	UNIT	P7920 ABG
A	mm	6 387
B <sub>2</sub>	mm	3 784
B <sub>3</sub>	mm	2 916
C	mm	2 548
D <sub>1</sub>	mm	2 874
D <sub>2</sub>	mm	1 614
D <sub>3</sub>	mm	936
E <sub>1</sub>	mm	3 255
E <sub>2</sub>	mm	3 175
E <sub>3</sub>	mm	2 495
F <sub>1</sub>	mm	770
G <sub>1</sub>	mm	599
G <sub>2</sub>	mm	734
H <sub>1</sub>	mm	2 342
H <sub>2</sub>	mm	2 219
J <sub>1</sub>	mm	275
J <sub>2</sub>	mm	259
J <sub>3</sub>	mm	932
K <sub>1</sub>	mm	360
K <sub>2</sub>	mm	360
L	mm	155
N	mm	160
O	mm	1 325
S <sub>1</sub>	mm	3.0
S <sub>2</sub>	mm	6.0
T <sub>1</sub>	mm	918
T <sub>3</sub>	mm	2 984
T <sub>4</sub>	mm	398
U <sub>1</sub>	mm	1 974
U <sub>2</sub>	mm	302
W <sub>1</sub>	mm	315
W <sub>2</sub>	mm	435



## OPERATING WEIGHTS<sup>1</sup> OF SCREEDS

At working width		2.5 m	4.0 m	5.0 m	6.0 m	6.5 m	7.0 m	7.5 m	8.0 m	8.5 m	9.0 m	10.0 m
VB 88 ETC	kg	-	-	-	-	-	-	-	-	-	-	7 473

<sup>1</sup> Including auger extensions, channel plates, end gates, towing arms rear, etc.

# Equipment

## STANDARD EQUIPMENT

### Engine

Volvo Diesel engine, CEV Stage IV

### Drive

Electronic drive control

Lifetime lubricated crawler track rollers

Forged and hardened crawler track links

Automatic track tensioner

### Material Management

Proportional conveyor sensors

Four individual hydrostatic drives for conveyors and augers

Reversible direction of auger rotation

Reversible conveyor

Heavy duty auger 10 m

Auger quick lock system

Auger extensions and additional auger bearings

Hydraulic auger height adjustment

Proportional ultrasonic sensor auger control

### Electrics and electronics

Electronic Paver Management (EPM 3) Main Control Panel

Set of Basic Screed control Units

ECO mode

Settings Manager

Service Interval Manager

Battery master switch

Electric switch cabinet

3D leveling ready (grade control)

### MATRIS

### Structure

All-weather roof of GRP (glass-fibre reinforced plastic) with side extensions

Adjustable and revolving main control panel at operator platform

Manual hydraulically foldable Weather roof

Two seats, laterally extendable

Storage space below seats

Anti-vandalism kit

Near field mirrors at weather roof extensions

Volvo Green Key

### Screed

VB88 ETC 6.0 - 10.0

Split towing arms

Hydraulic crown adjustment vario screeds

### Lights

Operator's platform lighting

Road Lights according to India Homologation

Work Light Plus Kit

### Environmental

Sound insulation

High pressure cleaning gun

## OPTIONAL EQUIPMENT

### Material Management

Individual operating hopper wings

### Electrics and electronics

Four 230V power sockets

CareTrack - GSM installation

### Screed

Screed spacer blocks 56 mm

Screed assist

Screed anti-climbing lock

Screed load device

Screed tensioning device

### Levelling equipment

Mobamatic 2 Controller

Levelling Kit Mobamatic 2; 2 Sonic Ski, Slope

Sensor Rotary

Sensor Slope at max 7m

Bracket Kit Grade Sensor

Bracket Kit Slope Sensor

### Lights

Warning beacons LED



## SELECTION OF VOLVO OPTIONAL EQUIPMENT

Individually operated hopper wings



CareTrack packages



Spacer blocks



Sensor side panel



Power socket



“Work Plus” LED lighting kit



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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