

V O L V O



Volvo Tracked Pavers 2.5-7.5 m 105 kW

# P5320 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.



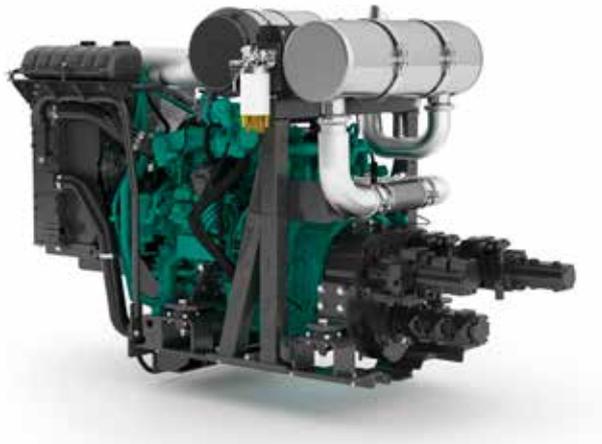
# BUILDING TOMORROW

# Paving performance

The Volvo P5320 ABG tracked paver offers the perfect blend of power and efficiency, and is fully road homologated according to Indian regulations. Features including the Volvo engine, Omni V screed, superb traction and paver stability help to deliver the highest quality paver results across a wide range of projects.

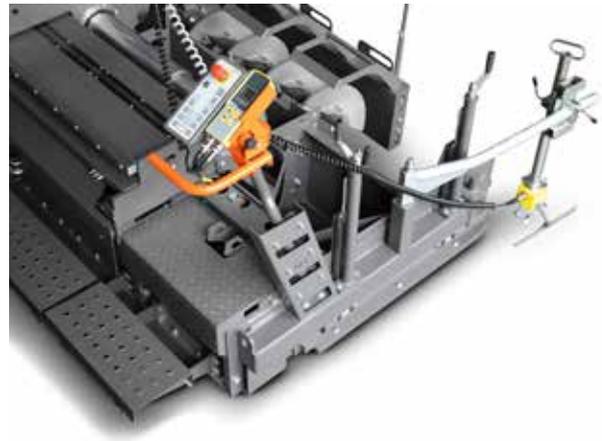
## Powerfully efficient

Count on the powerful, fuel-efficient and quiet 105kW Volvo MDE5 engine to get the job done. The auto-engine idle function further reduces unnecessary fuel consumption, while the thermo-controlled variable fan adapts fan speed depending upon system temperature, optimizing the load on the engine.



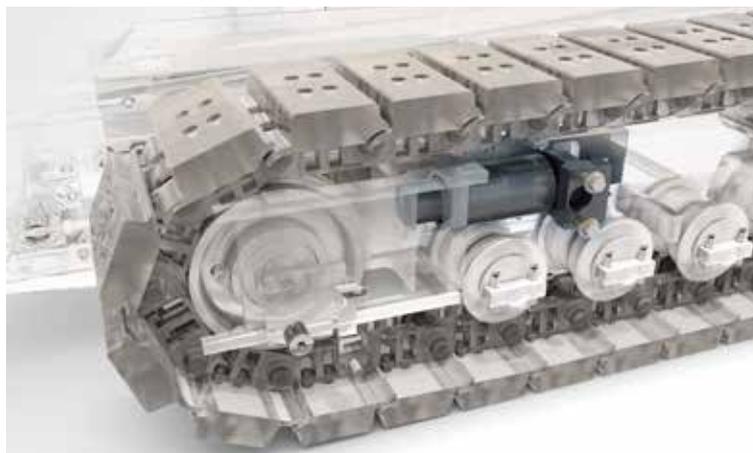
## The screed to succeed

Take your paving results to the next level with the Omni V screed – the most rigid Variomatic screed in the industry. With on-the-go width changes from 2.5m to 4.75m and extensions enabling even wider paving widths up to 7.5m, the tamping and vibrating screed is ready to produce a flawless mat finish whatever the task at hand.



## Automatic track tensioner

For increased uptime, lower operating costs and impressive paving results, the undercarriage features the unique Volvo automatic track tensioner. This removes the need for manual intervention to secure track tension, which ensures the paver maintains a consistent direction and increases lifespan of the tracks.





# PRODUCTIVITY PARTNER

Built on a specially designed large frame the P5320 ABG provides a paving width of up to 7.5m with all the strength needed to take on the most challenging jobs and push a 40t truck. The high-capacity hopper and heavy-duty push rollers further contribute towards superb productivity with less interruptions, and outstanding finished results.

# The operator's choice

Boasting superb levels of comfort and visibility, the P5320 ABG is designed to help operators achieve optimum paving results. Features including the new generation EPM2.5, adjustable screed operation and foldable all-weather roof all contribute towards an impressive operator experience.

## Adjustable screed operation

The adjustable screed control unit rotates and tilts to fit the operators' preference and jobsite conditions. The new "cross operation" function enables the operator to control the other side of the screed; Especially useful in confined areas where one screed control unit may have to be removed for some time (e.g. paving close to walls or other obstacles).



## Hopper lock handle access

The hopper lock handle is easily accessed directly from the platform, enhancing operator convenience and safety.



## Operate in comfort

Operators benefit from excellent all-round visibility including the jobsite, hopper and auger – further helped by mirrors and four work lights. Operator comfort is enhanced thanks to features including adjustable seat and sliding control panel, while a foldable all-weather roof keeps operators protected whatever the weather.





# INTUITIVE OPERATION

Operators can control the paver with complete confidence thanks to the new generation EPM2.5. The industry renowned Electronic Paver Management system consolidates all control buttons, including the Service Interval Manager, within a single system, arranged in a birds-eye layout. Using the jog wheel, operators can quickly select and adjust functions for greater machine control, ease of use and optimum efficiency.

# Maximum uptime

Easy servicing, high quality components and a durable design keep the P5320 ABG working harder for longer. Additional features including Care Kits, quick track pad changes and idler rollers all combine with around-the-clock premium support from your Volvo dealer, maximizing the uptime and profitability of your operation.

## Care Kits

Ensure optimum part performance and lifetime with Care Kits, eliminating the guess work of which parts need replacing by having them all on hand in a single package. Replacing only major or visibly worn parts and not those around them can put stress on the replaced parts. Save time, lower costs, and receive the latest technical improvements with just one kit.



## 24/7 support

Get your machine back to work without delay with 24/7 access to the Volvo dealer support network. Simply call the support number, which will automatically direct you to your local dealership. A dedicated team will be on hand to respond to your needs and offer a range of Volvo Services designed to help you get the maximum return on your Volvo machine from purchase to disposal.



## Quick replaceable Smart track pads

Changing track pads has never been quicker or easier thanks to bolts conveniently located inside the tracks.



## Guide roller

Guide rollers for the track chain separate the chain and frame, helping to increase component lifespan.





# SIMPLE TO SERVICE

Servicing is quick and easy with features including a hydraulically direct driven generator, removing the need to check tensioning. Central lubrication points and essential maintenance points are conveniently located on top of the platform helping to keep uptime to a maximum.

# Versatile performer

## Productive paving

- Built on specially designed large frame
- Strong structure to push 40t trucks
- High-capacity hopper
- Heavy-duty push rollers, 160mm diameter
- Thermo-controlled variable fan speed optimizes the load on the engine

## Fuel efficient engine

- 105kW Volvo engine
- High torque at low rpm
- Auto engine idle
- Low noise levels

## Flawless finish

- Automatic conveyor and auger control
- Adjustable auger height
- Volvo patented automatic track tensioner



## Take control

- New-generation EPM: intuitive control
- All-round visibility, mirrors and work lights
- Adjustable seat and sliding console
- Foldable all-weather roof, hydraulically-operated
- Easy access to hopper lock handle from platform
- “Cross operation” function on screed control unit enables to control the other side of the screed

## Keep on paving

- Easy access daily maintenance points
- Service Interval Manager, On-board diagnostics
- Hydraulically direct driven generator: no maintenance requirement
- Quick track pad changes
- Idler rollers
- Care Kits: ensure optimum part performance and lifetime

## Omni V: the screed to succeed

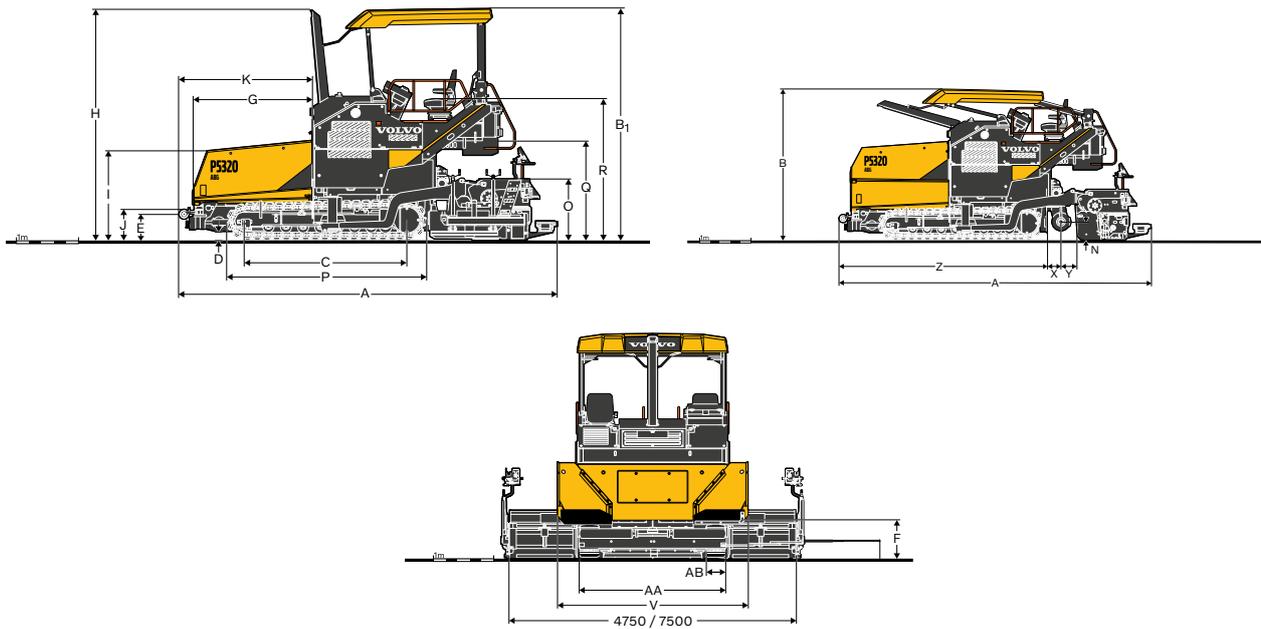
- Most rigid Variomatic screed in the industry for great pre-compaction of mat
- Vibrating and tamping, with chamfered tamping bar
- Wide tamping bar for long life
- Easy width changes from 2.5m to 4.75m
- Crown adjustment +/- 3%
- Automatic screed plates heat control, plate independent



# Volvo P5320D ABG in detail

Engine		
Manufacturer		Volvo penta
Model		TAD 570VE
Fuel		Diesel
Output	kW	105
	hp	143
at engine speed	r/min	2 300
Coolant		Liquid
Fuel tank capacity	l	230
Exhaust emission		CEV Stage-IV
Electrical System		
Battery voltage	V	24
Paving		
Output ( theoretical)*	t/h	600
Mat thickness (max)	mm	300
Speed		
Paving (max)	m/min	17
Transport (max)	km/h	3.3
Undercarriage		
Length	mm	2 618
Width (track plates)	mm	300
Conveyor		
Hopper capacity	t	12
Number of conveyors		2
Conveyor speed (max)	m/min	23
Auger		
Number of augers		2
Speed (max)	1/min	82
Diameter	mm	360
Dimensions		
Length	mm	6 099
Width	mm	2 664
Height	mm	3 767
Height (transport)	mm	2 974
Weight**		
Tractor unit	kg	13 820
Max. allowable gradeability***		
Tractor unit + screed	%	25
Sound Level		
Sound Power Level, according to ISO 6393		
LWA	dB	107
Vibration		
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
Notes		
*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: 75 kg operator, tires filled with water, Diesel tank half-full and weather roof included. ***Applies to screed Omni-V 2.5-4.75 m. When using extensions the max. allowable gradeability will be reduced.		

# Specifications



## DIMENSIONS

		P5320D	
A	Operating length/Shipping length	mm	6 099
B	Shipping height weather roof	mm	2 974
B <sub>1</sub>	Operating Height weather roof	mm	3 767
C	Track length	mm	2 618
D	Ground clearance	mm	155
E	Push Roller Center to ground	mm	435
F	Hopper inner charging height	mm	643
G	Hopper length	mm	1 912
H	Height of exhaust stack	mm	3 742
I	Distance of hopper front top tip point	mm	1 457
J	Distance of tip of push roller to ground	mm	515
K	Hopper length to push roller	mm	2 145
N	Distance auger centre to ground	mm	360±60
O	Screed height	mm	1 002
P	Distance of tangent of track pad front to rear	mm	3 220
Q	Deck/Platform height	mm	1 615
R	Seat height from ground	mm	2 293
V	Outer hopper width	mm	3 171
X	Distance rear wall auger centre	mm	267
Y	Distance auger centre to screed	mm	318
Z	Distance rear wall to push roller outer tip	mm	4 065
AA	Track gauge	mm	2 269
AB	Track pad width	mm	300
	Diameter of Push roller	mm	160
	Diameter of Auger flights	mm	360
	Angle of approach	°	13
	Basic screed width Omni V	m	4.75
	Max Screed width Omni V	m	7.5

## Screed weights\*-P5320D

Working width		2.5 m	4.75 m	5.5 m	6.0 m	6.25 m	7.0 m	7.5 m
Omni V	kg	3 590	3 880	4 270	4 445	4 515	5 270	5 445

\* Including auger extensions, channel plates, grating plates. (No rear Tow arms)

# Equipment

## STANDARD EQUIPMENT

### Engine

TAD570VE Volvo Penta engine, BS IV CEV-105 kW/143 HP

### Drive

Electronic drive control

Lifetime lubricated crawler track rollers

Forged and hardened crawler track links

Automatic track tensioner

### Material Management

Heavy push rollers

Four individual hydrostatic drives for conveyors and augers

Auger speed control ON/OFF

Reversible direction of auger rotation

Independent augers and conveyors

Manual auger height adjustment

Automatic material flow control

Heavy duty conveyor Kit

Reversible direction of conveyors

### Electrics and electronics

Electronic Paver Management (EPM 2.5)

Back-lit controls

Settings Manager

Service Interval Manager

slidable control station (Left to right)

Two adjustable and revolving screed control panels

Battery master switch

Back-up alarm

USB Mobile Charger

24V sockets at Fuse and relay distribution box

### Structure

Manual folding all-weather roof Glass-fibre Reinforced Plastic (GRP)

Two seats

Integrated vandalism protection

Tool kit

Storage compartments under both seats

Mobile holder

### Screed

Screed towing arms, continuous version

Screed lock

Hydraulics for Vario screeds with tamper and vibration

Electrical thermal control screed plate

Hydraulically extendable Screed 2.5m to 4.75 m

### Lights

Driver's compartment lighting

Two working lights

Two Auger Tunnel lights

### Environmental

Sound insulation for engine compartment and operator station

Diesel Spray cleaning system

## OPTIONAL EQUIPMENT

### Material Management

Auger extensions and additional auger bearings

Conveyor Guard plate Kit

Proportional ultrasonic sensor auger control

Conveyor drive Medium duty

### Electrics and electronics

Levelling equipment-Sonic Grade sensor

### Screed

Screed assist

Bolt-on extension kits: 5.5 - 7.5 m

### Lights

Beacon light

Additional Work lights

## SELECTION OF VOLVO OPTIONAL EQUIPMENT

Reversible conveyor



Heavy-Duty conveyor 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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