

V O L V O



Volvo Tracked Pavers 2.5-11.0 m 175 kW

P7820DL ABG

Volvo Construction Equipment

Volvo puts you in control

Be in complete control of your paver with Volvo's technologically-advanced features, designed for simple operation and maximum efficiency. Combining the next generation Electronic Paver Management system (EPM3) and the Settings Manager feature with a low-noise operator environment and all-around visibility, the P7820DL ABG is the ultimate package.

Get set and go

Experience consistent, high quality paving job-to-job with Settings Manager, capable of storing customized settings for individual projects. Begin paving quickly with this integrated feature, which simplifies the initial machine setup by enabling operators to recall saved parameters within EPM3 when facing similar paving jobs. Once paving is underway, fine tuning can be made to optimize performance and productivity.



High power, high comfort

Achieve high paving performance at remarkably low noise levels with the P7820DL ABG. By matching the engine output to the actual need, 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, while the automatic track tensioner reduces vibrations to ensure a smooth operation.



Every angle in view

From the operator platform, experience unhampered visibility around the paver, hopper, auger channel and screed. The newly designed engine hood offers superb visibility to the hopper, enabling the operator to check material supply and flow at a glance. Meanwhile, the new glazed area to both sides of the operator platform offers even greater visibility, optimizing overall efficiency and jobsite safety.



Advanced operation

Easy overview, easy settings and easy adjustment. With a large color display, Volvo screed panels provide excellent visibility of the main paving functions, as well as enabling a quick screed setup. A new bracket also allows the operator to easily adjust and position the screed panel according to their preferences.





INTUITIVE OPERATION

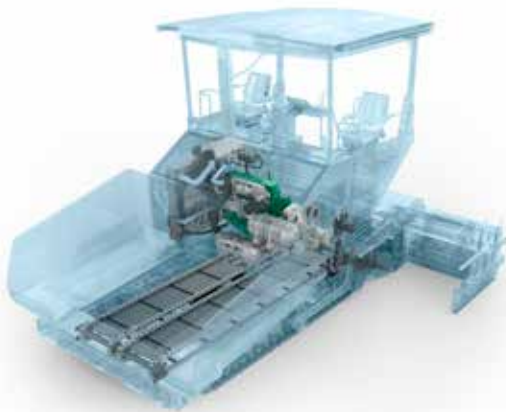
Take control of your operation with the new Electronic Paver Management (EPM3) system. All buttons are consolidated in a bird's-eye view layout and background illumination supports easy operation when working at night. All essential operating information, including towing arm indication on both sides, is displayed on the monitor. Using the jog wheel, operators can quickly select and adjust functions for greater ease of use.

Long-lasting paving performance

Built on high-performance components, the P7820DL ABG is designed to boost productivity while reducing fuel consumption, noise and operating costs. With over half a century of paving experience and innovative engineering, this paver achieves long-lasting performance.

Durably efficient

Optimize uptime and machine lifetime with Volvo powertrain and the improved hydraulic system, offering unrivalled durability and performance. The powertrain feature complements the hydraulic system, which is perfectly matched to the Volvo engine to provide high performance, low fuel consumption, emissions and noise.



Efficiently cool

Count on the P7820DL ABG to keep cool while operating 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. What's more, this feature reduces noise, lowers fuel consumption, boosts component lifetime and optimizes efficiency of the hydraulic system.



Faultless finish

Rely on the durably-designed P7820DL ABG paver for a consistent, high quality paving surface. Combining several features, including the automatic track tensioning system and large hopper capacity, you can depend on the paver to deliver a smooth, even surface.



Go long

The P7820DL ABG hopper is 300mm longer compared to the standard paver version, extending the distance between the front wall and push rollers to 2580mm. The result is enough space for even extra-large trucks with longer overhangs to be able to feed the paver.





POWER TO PERFORM

Power your operation with the fuel-efficient Volvo engine, specifically tuned to the hydraulic system. Built by Volvo for Volvo, the premium engine combines high torque and low RPM for superior, long-lasting performance. Reduce fuel consumption, increase productivity and extend component life with advanced, built-in features, such as the adaptive ECO Mode, which matches engine output to jobsite requirements, giving you the power to perform.

Supreme screed technology

Take your paver's performance to the next level with Volvo screeds. Whether equipped with a single or double tamper screed, your P7820DL ABG combines optional hydraulically controlled end gates, Volvo quick coupling system, and special profiles to deliver versatility and a smooth, high quality surface.

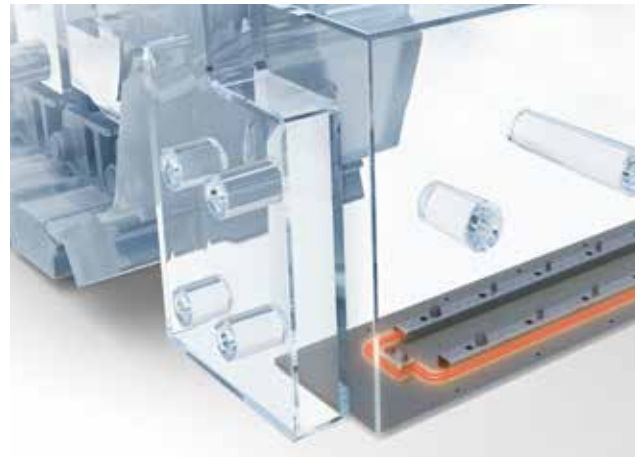
Designed for durability and performance

Achieve material target density with Volvo's specially-designed tamper bars, fully hardened for lasting durability. Depending on application and condition, choose from the single or double tamper screeds to ensure a smooth, uniform surface. The double tamper screed offers the highest levels of compaction density behind the screed, which is essential when paving thick asphalt.



Electric heating system

For consistent and reliable heating, Volvo screeds have a dual heating bar arrangement. In addition, an integrated temperature controller constantly regulates the heating temperature of the base plates, to ensure uniform heat distribution over the entire screed. Volvo screeds are designed with three separate control circuits and for each screed section, the temperature can be adjusted individually.



Quick and easy assembly

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



Guide plate system

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





ENGINEERED FOR EFFICIENCY

Built on decades of engineering excellence, Volvo screeds deliver the best pavement quality, uniformity and smoothness. Versatile and effective in paving widths up to 11 meters, the P7820DL ABG features industry-leading screeds, capable of handling a wide range of materials. Volvo Variomatic screeds have eight guide tubes, four for each hydraulic extension, which contribute to a consistent, uniformly compacted smooth surface.

Keep your paver up and running

To keep machines efficient and increase longevity, Volvo offers a number of component life-extending features as well as quick and easy maintenance. With smart systems like PSR and the Service Interval Manager, plus a range of services, it's easy to keep your hardworking P7820DL ABG paver up and running.

Service Interval Manager

Stay informed of servicing requirements and maximize machine uptime with Service Interval Manager. A dedicated display on the EPM3 paving panel alerts the operator of required or scheduled maintenance, and is recorded on the system, which retains a service history record. And, with the fuel-theft prevention system, you will be notified if fuel has been stolen, helping you avoid unwanted and costly downtime.



State-of-the-art servicing

Maximize uptime with quick and safe servicing. Improved service access to essential checkpoints via the wide-opening on top of the platform provides ease of maintenance, reduces downtime and minimizes operational costs. Quickly access every ignition and service hatch across an entire fleet with a single key.



Volvo – a partner to trust

Volvo is here to support you whenever you need it. As a complete solutions provider, we listen to your requirements to ensure machine uptime and availability. With our extensive dealer coverage, parts availability and trained technicians, Volvo has a comprehensive network to fully support you using local knowledge and experience.



Care kits

Replacing only major or visibly worn parts and not those around them can stress the replaced parts, significantly reducing your machine's lifetime. Ensure optimum part performance and life with Volvo Care Kits for wear parts and eliminate the guess work of which parts to replace by having them all on hand in a single package. Save time, lower costs, and receive the latest technical improvements with just one kit.





EASY MACHINE MONITORING

PSR is the new generation of telematics hardware, bringing you brand-new and upgraded connected services. Make sure your machine operates efficiently and maximize uptime thanks to data related to utilization, work hours and fuel consumption.

Take performance to the next level

Every angle in view

From the operator platform, experience all-around visibility around the paver, hopper, auger channel and screed.

Adaptive ECO mode

ECO mode works with adaptive engine RPM to provide superior fuel efficiency and ultra-low noise for excellent operator comfort.

Easy machine monitoring

PSR telematics system provides insights into machine utilization such as hours and fuel consumption to help boost uptime and profits.

Designed for durability and performance

Depending on application and condition, choose from the single or double tamper screeds for a smooth, uniform surface.

Power to perform

Volvo's quiet and efficient engine gives you more power while consuming less fuel thanks to advanced, built-in features.

Engineered for efficiency

Rely on Volvo screeds, built on decades of engineering excellence for the best surface quality, uniformity and smoothness.



Efficiently cool

Even at high ambient temperatures, the adaptive cooling fan allows the engine and hydraulics to cool effectively.

Convenient storage

Paving console and screed console can be stored safely and securely underneath the lockable operator seat.

Intuitive operation

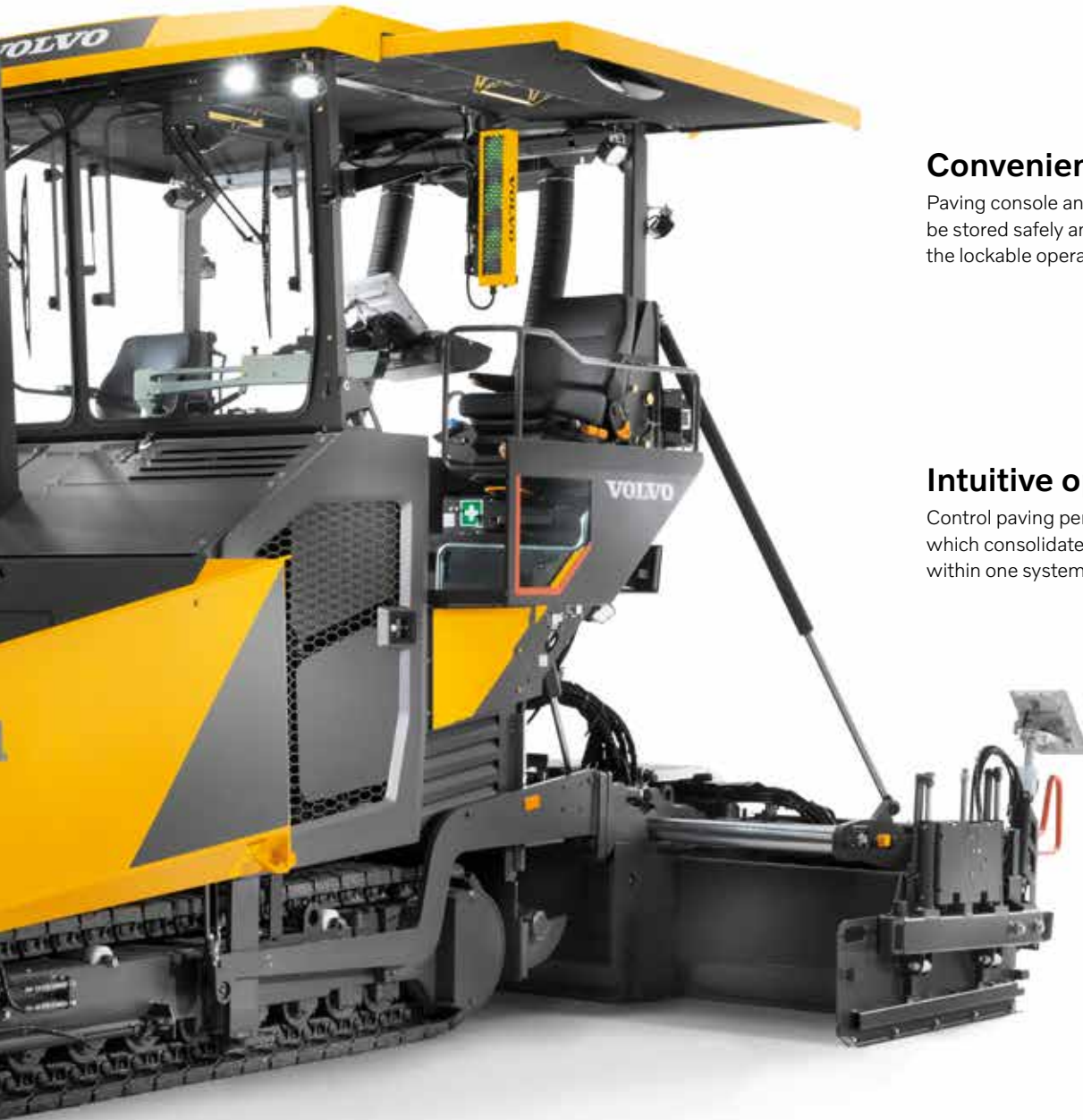
Control paving performance with EPM3, which consolidates all control buttons within one system for optimum efficiency.

Go long

Hopper is extended by 300mm compared to the standard paver, creating a 2 580mm distance between front wall and push roller.

State-of-the-art servicing

Maximize uptime with quick and safe servicing thanks to improved service access and single key.

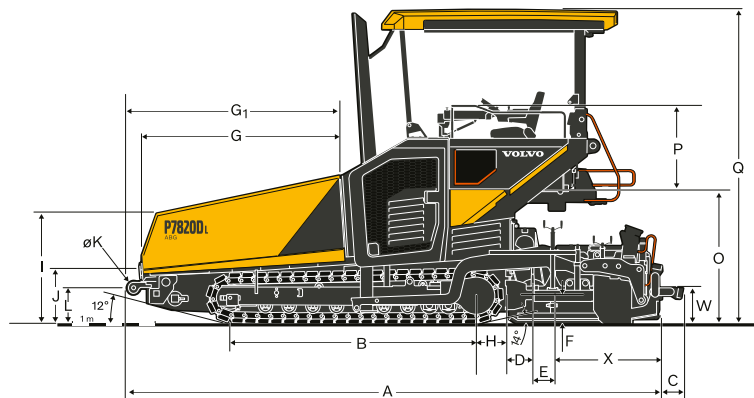
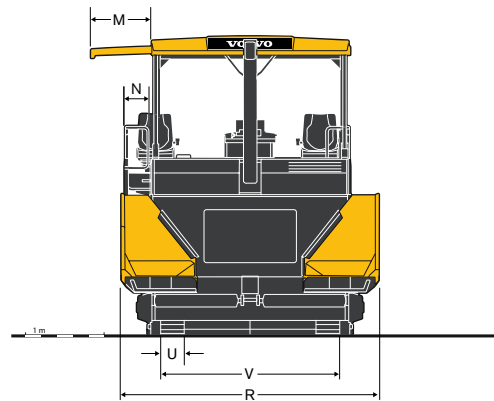
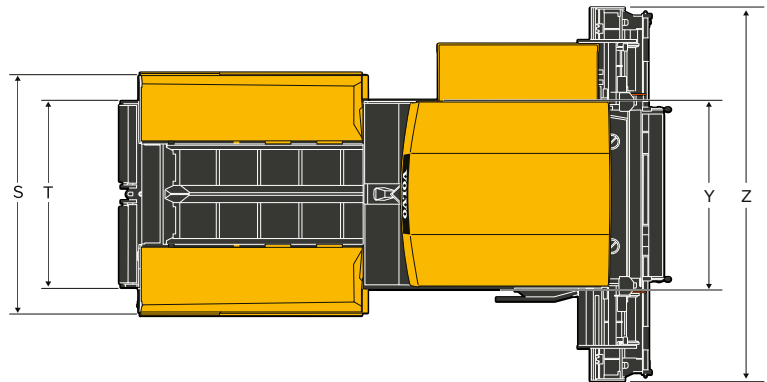


Volvo P7820DL ABG in detail

Engine		
Manufacturer		Volvo
Model		D8J
Fuel		Diesel
Output	kW	175
	hp	237
at engine speed	r/min	1800
Coolant		Liquid
Fuel tank capacity	l	250
Exhaust emission		China 4
Paving		
Output (theoretical)*	t/h	900
Mat thickness (max)	mm	300
Speed		
Paving (max)	m/min	20
Transport (max)	km/h	3.6
Undercarriage		
Length	mm	3 000
Width (track plates)	mm	300
Conveyor		
Hopper capacity	t	15.5
Number of conveyors		2
Conveyor speed (max)	m/min	23
Auger		
Speed (max)	1/min	95
Diameter	mm	360
Electrical system		
Battery voltage	V	24
Dimensions		
Length with Vario Screed (Walkway up)	mm	6 452
Width	mm	2 548
Height	mm	3 780
Height (transport)	mm	2 910
Weight**		
Tractor unit	kg	15 440
Max. allowable gradeability***		
Tractor unit + screed	%	25
Sound Level		
Sound Pressure Level at Driver's Ear, acc. to ISO 11201		
L _{pA}	dB	83
Guaranteed Sound Power Level, acc. to Directive 200/14/EC		
L _{WA}	dB	105
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 tractor without screed, with standard hopper, with fuel tank half full, with towing arms separated, 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		
		P7820DL ABG
Unit		mm
A	Standard	6 452
B		3 000
C		250
D		275
E		265
F		360 ± 60
G		2 385
G ₁		2 557
H		398
I		1 385
J		600
K		160
L		435
M		770
N		318
O		1 615
P		1 025
Q	up	3 780
	down	2 910
R	open	3 257
	closed	2 452
S		3 176
T		2 495
U		300
V		2 269
W		438
X		1 297
Y		2 500
Z		5 000



OPERATING WEIGHTS¹ OF SCREEDS IN KG²

At working width	2.5 m	4 m	5 m	6 m	6.5 m	7 m	7.5 m	8 m	8.5 m	9 m	9 m (V)	10 m	11 m
P7820DL ABG													
VB 78 ETC	-	-	3 600	-	5 222	-	5 802	6 342	-	6 923	-	-	-
VDT-V 78 ETC	-	-	3 850	-	5 592	-	6 192	6 832	-	7 433	-	-	-
VB 88 ETC	-	-	-	4 050	-	-	5 772	-	6 352	6 892	-	-	-
VDT-V 88 ETC	-	-	-	4 450	-	-	6 242	-	6 842	7 482	-	-	-
MB 122 ETC	2 242			4 456			6 076			6 828	7 454	8 050	8 575
VDT 121 ETC	2 442			4 903			6 680			7 531	8 193		

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

²All screeds electrically heated

Equipment

STANDARD EQUIPMENT

Engine

Volvo Diesel engine, China 4

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

Hydraulic auger height adjustment

Proportional ultrasonic sensor auger control

Reversible conveyor

Central lubrication

Electrics and electronics

Electronic Paver Management (EPM 3)

ECO mode

Settings Manager

Service Interval Manager

Adjustable and revolving main control panel at operator platform

Two adjustable and revolving screed control panels

Battery master switch

Electric switch cabinet

MATRIS

Generator for electric screed heating

PSR telematics

Structure

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

Two seats, laterally extendable

Anti-vandalism kit

Near field mirrors at weather roof

Volvo Green Key

Screed

Split towing arms

Screed lock

Lights

Six working lights Halogen at weather roof

Environmental

Sound insulation

OPTIONAL EQUIPMENT

Material Management

Individual operating hopper wings

Auger quick lock system

Auger extensions and additional auger bearings

Electrics and electronics

230V power sockets

High ambient temperature fan

On-board diagnostic function for manual screed heating bars

Levelling equipment

Screed

Screed spacer blocks

Screed assist

Screed anti-climbing lock

Screed load device

Screed tensioning device

Hydraulic height Adjustment of Extendable Screed

Lights

Warning beacons Halogen

Two additional worklights Halogen at rear frame

Two additional auger worklights Halogen at rear frame

Platform light with home light function

Environmental

High performance spray cleaning unit

SELECTION OF VOLVO OPTIONAL EQUIPMENT

Screed load device



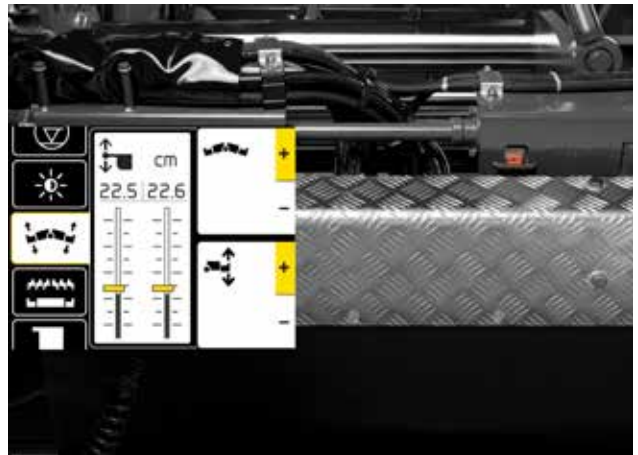
Screed tensioning device



Home lights



Hydraulic height Adjustment of Extendable Screed



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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