

Volvo Construction Equipment  
Building Tomorrow



# DD100B

Volvo Double Drum Compactors 10 t 77 kW



# The versatility to smoothly do it all

The DD100B is your versatile performer, providing flexibility to handle varying conditions, widths and applications, from expressways, national highways and airport runways, through to large parking lots. It is a 10-ton double drum asphalt compactor that gives you complete control in the choice of amplitudes, frequency and more. The result is a smooth, finished mat achieved in less passes, for more profitability.

## Selectable eight amplitudes

Eight amplitude settings can be easily adjusted by the operator, allowing for frequent changes as application conditions vary. If conditions warrant an increase in dynamic drum force, changing drum amplitude results in fewer passes and increased productivity. Improves versatility and finishing work quality.



## Variable water flow control

Allows the operator to infinitely and variably adjust water flow required to prevent asphalt sticking to the drum. Using the minimal effective amount saves water usage, decreasing downtime as a result of water refills. Improved finished product. Conserves water.



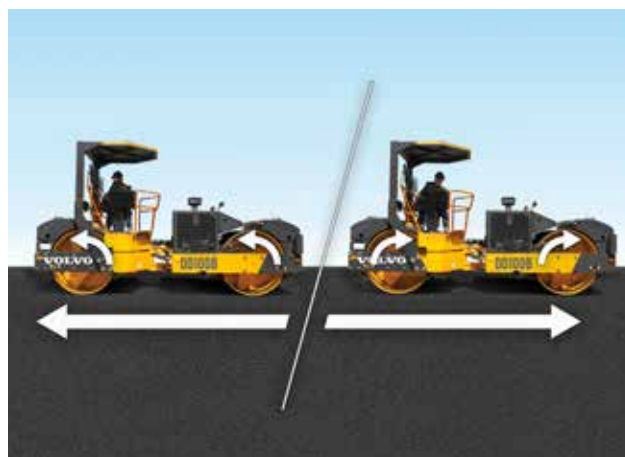
## Dual frequency selection

Easily adjust the vibration frequency from the operator console to compensate for changing material types and conditions. The lower frequency is best suited to granular soils or graded aggregate, while the higher frequency is preferred when compacting bituminous paving material.



## Automatic eccentric rotation

Eccentric rotation automatically matches the direction of travel, improving mat smoothness with less material distortion. Allows the operator to concentrate on other operational responsibilities, eliminating the possibility of neglecting to change the eccentric rotation.





### 5-position rotating console

Operator's seat and console can be rotated in five positions allowing maximum comfort and sight line visibility for enhanced maneuverability.



### Isolated operator's platform

The operator's platform is rubber isolated to reduce the effect machine vibrations have on the operator. Decreases fatigue for greater operator comfort, safety and prolonged productivity.



# INDEPENDENT FREQUENCY AND AMPLITUDE SETTING

Take on a wider variety of jobs with the versatile DD100B, featuring industry-leading independent frequency and amplitude settings. With the ability to select from two frequencies and eight amplitudes independently, you can adjust the compactor for optimal working with a wide range of materials and thicknesses.

# See more. Do more.

## INDEPENDENT FREQUENCY AND AMPLITUDE SETTING

Adjust the compactor to work with a broad variety of materials and thickness thanks to industry-leading independent frequency and amplitude settings.

### 5-position rotating console

Operator's console can be rotated in 5 positions allowing maximum comfort and sight line visibility for enhanced maneuverability.

### Selectable eight amplitudes

Easy operator adjustments allow for frequent changes as application conditions vary, improving versatility.

### Powerful, efficient engine

Kirloskar Bharath Stage III engine delivers plenty of power, performance and environmental emission compliance.

### Vandalism protection

Lockable vandal covers protect the console, while lockable engine hoods, fuel cap, water fill cap and deck access doors deter theft and vandalism.

### Dual frequency selection

Easily adjust the vibration frequency from the operator console to compensate for changing material types and conditions.





### Isolated operator's platform

The isolated rubber platform provides greater operator comfort, safety and prolonged productivity.

### Superior drum spray system

Pressurized water system provides a consistent water flow to the drum surfaces, eliminating possible asphalt material buildup that can require rework.

### Automatic vibration

Vibration automatically engages or disengages when an operator-selected upper and lower respective travel speed threshold has been reached.

### Automatic eccentric rotation

Automatically matches the direction of travel, for improved mat smoothness, less material distortion and use of less engine power.

### Variable water flow control

Adjustable water flow to prevent asphalt sticking to the drum. Saves water usage and decreases downtime due to water refills.

### Genuine Volvo Parts

Every part is vital for uptime and performance. Only by using Genuine Volvo Parts, can you be sure that your machine retains its renowned Volvo quality.

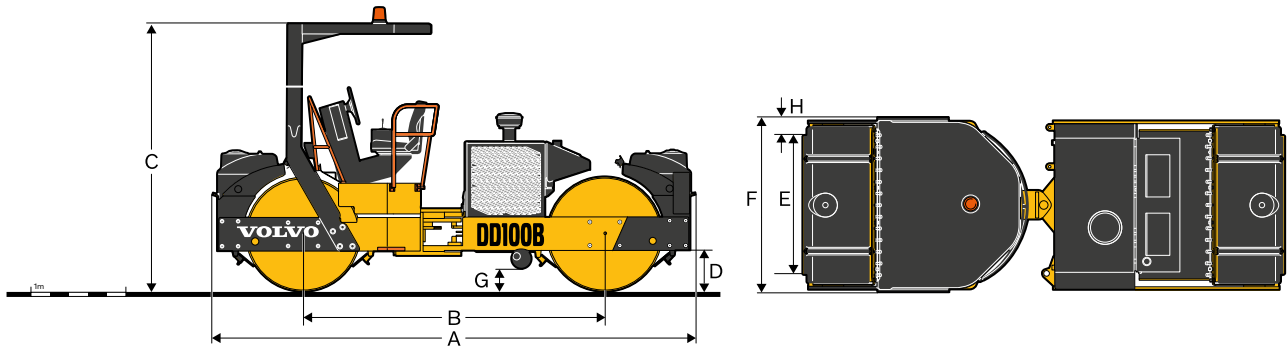
### Here to support you

With our extensive infrastructure of technicians, workshops and dealers, Volvo has a comprehensive network to fully support you using local knowledge and global experience.



# Specifications

Model		DD100B	
<b>Machine weights</b>			
Operating weight (1)	kg	10 025	
Max Operating Weight (All Tanks Full)	kg	10 500	
Weight @ front drum	kg	4 800	
Weight @ rear drum	kg	5 200	
Shipping weight (2)	kg	9 330	
<b>Drums</b>			
Width	mm	1 676	
Diameter	mm	1 219	
Shell thickness	mm	19	
Finish	Machined surface; chamfered & radiused edges		
<b>Vibration</b>			
Frequency	Hz	42/30	
Amplitude	mm	0.4/1.0	
Amplitude settings		8	
Centrifugal force	kN	63/116	
<b>Propulsion</b>			
Type	Closed-loop hydrostatic, parallel circuit to both drums		
Drum drive	2-speed axial piston motors with planetary gear drive		
Travel speed	high	km/h	0 - 10
Travel speed	low	km/h	0 - 5
Gradeability (theoretical)		%	30
<b>Engine</b>			
Make / model	Kirloskar 4R1040TA3 BS -III (CEV)		
Engine type	Turbo charged water cooled		
Rated power @ installed speed	kW	77 kW @ 2 200 r/min	
Electrical	12 V DC, 65 A alternator		
Battery CCA	CCA	750	
<b>Brakes</b>			
Service	Dynamic hydrostatic through propulsion system		
Parking secondary	SAHR on both drum drives		
<b>Water system</b>			
Type	Pressure spray drum wetting system with LDPE water tank		
Pumps	Two water pumps- One for each drum		
Spray Bars	One spray bar for each drum		
Nozzles	Hand-serviceable spray nozzles, 7 per spray bar		
Filtration	Filter baskets in fill necks, primary filter at each pump, fine filter for each nozzle		
Drum wipers	Front & rear Rubber wipers for each drum. ( Nylon as option)		
Water tank capacity	l	492/Each Tank	
<b>Steering</b>			
Type	Articulated frame center pivot steering		
Outside turning radius	mm	5 502	
Inside turning radius	mm	3 558	
Articulation angle	Deg	40	
Oscillation Angle	Deg	10	
Offset	mm	-	
<b>Fluid Capacities</b>			
Fuel tank capacity	l	189	
Hydraulic oil capacity	l	133	
(1) incl. 50% fuel, 50% water, 75 kg operator			
(2) incl. 10% fuel, no water, no operator			



## DIMENSIONS

		mm
A	Overall length	5 086
B	Drum base	3 200
C	Overall height (top of cab)	2 845
D	Curb clearance	430
E	Drum width	1 676
F	Overall width	1 910
G	Ground clearance	330
H	Side Clearance	117,5

# Equipment

## STANDARD EQUIPMENT

### Engine

Battery disconnect switch

### Vibration and drum system

Auto vibration

Selectable vibration: front, rear, both

2 frequencies, 8 amplitudes

### Electrics and electronics

Emergency stop button

Back-up alarm

### Operator environment

Operator seat, steering wheel and main controls: lateral sliding and rotating +/- 90°

Propulsion control lever

1 charger sockets 12V

Heavy Duty Sun Roof

Storage compartments

Easy to clean anti slip cab floor

Seat switch with timer delay

2" Seat Belt

## OPTIONAL EQUIPMENT

### Electrics and electronics

Beacon light

### Structure

Nylon rubber wiper

## SELECTION OF VOLVO OPTIONAL EQUIPMENT

### Beacon light



### Nylon rubber wiper



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**

**Volvo Construction Equipment**

[volvoce.com](http://volvoce.com)