

V O L V O



Volvo Double Drum Compactors 10.0 t 74 kW

# DD100C

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

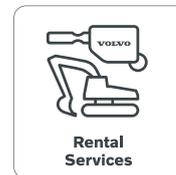
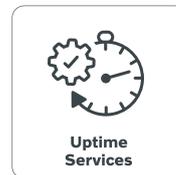
Our industry leading machines are just the start of your relationship with Volvo. As your partner, we have developed an extensive range of additional solutions to help you improve uptime, boost productivity and reduce costs.

### 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.



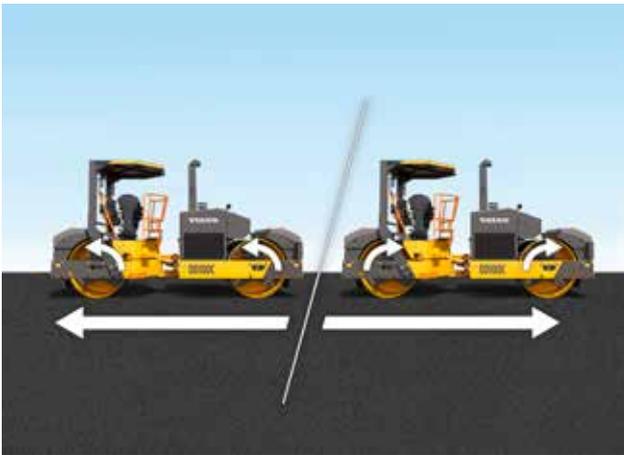
# BUILDING TOMORROW

# Industry leading drum performance

The DD100C is the new-generation 10-tonne double drum compactor from Volvo. This versatile machine is designed to deliver a superior surface in less passes, offering maximum profitability across a wide range of applications.

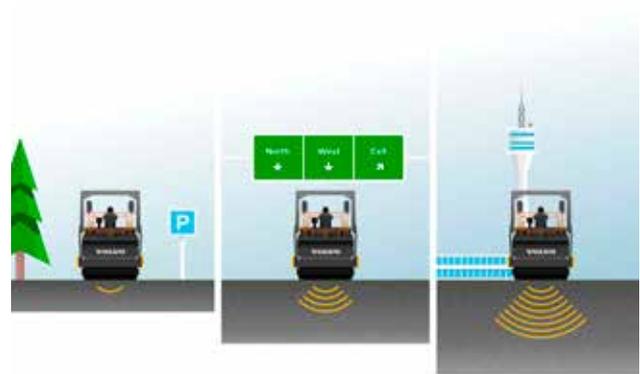
## A superior surface

Achieve superior mat results thanks to the reversing eccentric rotation which automatically matches the direction of travel. Volvo is the only manufacturer to have designed a compactor where both drums have eccentrics working with the same amplitude, and rotation matching the direction of travel, ensuring the best mat quality.



## The right force for the job

Boost productivity and achieve target density in fewer passes with the ability to select from two frequencies and eight amplitudes independently, allowing for changes in dynamic drum force according to varying conditions.



## Optimum water use

The automatic drum wetting system provides uniform drum coverage, while the operator can adjust the water flow to prevent material pick-up.





# THE VERSATILE PERFORMER

Hit your targets across a wider variety of jobs with the versatile and high performing DD100C, featuring automatic eccentric rotation with independent frequency and amplitude selection, as well as industry-leading centrifugal force.

# Proven results

A proven performer for over 30 years, the new-generation 10-tonne asphalt compactor combines its exceptional pedigree with a range of new features, including 4.3" display and efficient engine, to deliver outstanding levels of productivity and quality.

## Comfortably productive

Operators benefit from outstanding visibility thanks to the control station which can be rotated 180° and locked in 5 different positions, contributing to a safe, comfortable and productive performance. A heavy-duty steel sunshade protects the operators against the elements and falling objects, as well as in the unlikely event of a machine roll-over.



## 30-years strong

For over 30 years the Volvo 10t double drum compactor has been the most tried, tested and proven machine within the Volvo road machinery portfolio. The industry leading quality components include strong center joint and wide front bumper, including semi-automatic special purpose machine-welded seams. The durably designed eccentric assembly further contributes to a long service life.



## Powered to perform

The fuel efficient and reliable VECV engine helps to secure the highest levels of performance and a low cost of operation. Both the engine and machine can be serviced by your Volvo dealer, providing a one-stop-shop maintenance solution for further convenience and reduced downtime.



## Made in India, for India

Based on decades of experience supplying high performing machines to the Indian market, the DD100C has been designed specifically for compaction applications in India.





# TAKE CONTROL

Unlock the full potential of your machine with the new 4.3" display. Available information via the display includes travel speed, impact spacing meter, trip meter, total working hours, engine rpm and high coolant temperature indicator. Service notifications as well as information regarding battery condition and DEF/fuel levels help to maximize uptime.

# Maximum return on investment

With the highest levels of Volvo quality built into every component, the DD100C is a reliable and durable machine designed to work harder for longer. Machine quality and ease of servicing are complemented by an extensive range of dealer support tools and Volvo Services, to keep your machine working at its best and get the maximum return on your investment.

## Round the clock 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, where a dedicated team will take care of your individual needs.



## Plan for success

Including preventive maintenance and total repairs, with a Customer Support Agreement you are in control of your service costs. Customer Support Agreements are part of an extensive portfolio of Volvo Services designed to help you get the maximum return on your Volvo machine from purchase to disposal.



## Retain Volvo quality

Only by using Genuine Volvo Parts can you be sure that your machine retains its renowned Volvo quality. Every part is vital for uptime and Genuine Volvo Parts are extensively tested and approved to provide the same levels of component quality as the day you bought your machine.





# SIMPLE SERVICING

Keep machine uptime to a maximum and maintenance costs to a minimum thanks to quick and straightforward servicing. The engine compartment is easily accessed from the ground-level while the low-profile machine provides convenient access to various tanks.

# Profitable performer

## Industry-leading drum performance

- The highest centrifugal force on the market
- 8 selectable amplitudes, independent from frequency
- Reversing eccentric rotation automatically matches the direction of travel
- Automatic drum wetting system with adjustable water flow
- Chamfered drum edges

## Comfortably productive

- 4.3" display: effective work and service management
- 180° rotating control station, lockable in 5 different positions
- Rubber isolated platform
- Heavy-duty steel sunshade

## Ease of maintenance

- Proven engine, serviced by your Volvo dealership
- Low profile machine makes easy access to various tanks
- Ground-level access to engine compartment

## Uptime you can rely on

- Proven machine design: 30-years strong
- Durable drum assembly, built by Volvo
- Call on Volvo 24/7
- Genuine Volvo Parts
- Customer Support Agreements

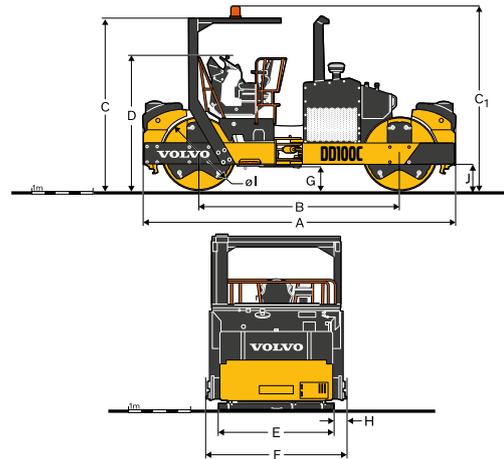
## Made in India, for India

Specifically tailored for compaction applications in India.



# Specifications

Model		DD100C
<b>Machine weights</b>		
Operating weight (1)	kg	10 000
Max Operating Weight (All Tanks Full)	kg	10 600
Weight @ front drum	kg	5 160
Weight @ rear drum	kg	4 840
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	23 - 115
<b>Propulsion</b>		
Type	Closed-loop hydrostatic, parallel circuit to both drums	
Drum drive	2-speed axial piston motors with gear drive	
Travel speed	high km/h	0 - 12
Travel speed	low km/h	0 - 7
Gradeability (theoretical)	%	26
<b>Engine</b>		
Make / model	VECV EE494TCI-HPCR Bharat Stage IV CEV	
Engine type	Turbo charged water cooled	
Rated power @ installed speed	kW	74 kW @ 2 200 r/min
Electrical	12 V DC, 90 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	5 700
Inside turning radius	mm	4 200
Articulation angle	°	38
Oscillation Angle	°	10
Offset	mm	-
<b>Fluid Capacities</b>		
Fuel tank capacity	l	185
Hydraulic oil capacity	l	135
(1) incl. 100% fuel, 50% water, 75 kg operator		
(2) incl. 10% fuel, no water, no operator		



## DIMENSIONS

		mm
A	Overall length	5 250
B	Drum base	3 300
C	Overall height (top of cab)	2 870
C <sub>1</sub>	Overall height (top of beacon)	3 040
D	Curb clearance	430
E	Drum width	1 676
F	Overall width	2 060
G	Ground clearance	370
H	Side Clearance	177
I (Φ)	Drum Diameter	1 219
J	Curb clearance	430

Amplitude Setting	DD100C									
	Nominal amplitude		High Vibration frequency		Eccentric force		Low Vibration frequency		Eccentric force	
	mm	in	Hz	VPM	kN	lbf	Hz	VPM	kN	lbf
<b>8 amplitudes</b>										
1	0.41	0.016	41.7	2 502	47.0	10 569	30	1 800	24.3	5 470
2	0.46	0.018	41.7	2 502	52.5	11 803	30	1 800	27.2	6 109
3	0.57	0.023	41.7	2 502	65.5	14 720	30	1 800	33.9	7 618
4	0.71	0.028	41.7	2 502	80.6	18 124	30	1 800	41.7	9 380
5	0.83	0.033	41.7	2 502	94.7	21 285	30	1 800	49.0	11 017
6	0.92	0.036	41.7	2 502	105.7	23 767	30	1 800	54.7	12 301
7	0.98	0.039	41.7	2 502	112.7	25 342	30	1 800	58.3	13 116
8	1.01	0.040	41.7	2 502	115.1	25 881	30	1 800	59.6	13 395

## STANDARD EQUIPMENT

### Engine

Battery disconnect switch

### Operator environment

5 Position rotating Console with Suspension Seat

Propulsion control lever

1 USB charger socket

Heavy Duty Sun Roof

Storage compartments

Easy to clean anti slip cab floor

Operator Presence switch with timer delay

2" Seat Belt

### Vibration and drum system

Auto vibration

Selectable vibration: front, rear, both

2 frequencies, 8 amplitudes

### Electrics and electronics

Emergency stop button

4.3" LCD Color Display

Back-up alarm

## OPTIONAL EQUIPMENT

### Electrics and electronics

Strobe Lamp

### Structure

Nylon wiper

Hydraulic Test Kit

Optional Tool Kit

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