



Volvo Construction Equipment

# DD100

VOLVO DOUBLE DRUM COMPACTORS 10 t 97 kW



# A passion for performance.

At Volvo Construction Equipment, we're not just coming along for the ride. Developing products and services that raise productivity – we are confident we can lower costs and increase profits for industry experts. Part of the Volvo Group, we are passionate about innovative solutions to help you work smarter – not harder.

## Helping you to do more.

Doing more with less is a trademark of Volvo Construction Equipment. High productivity has long been married to low energy consumption, ease of use and durability. When it comes to lowering life-cycle costs, Volvo is in a class of its own.

## Designed to fit your needs.

There is a lot riding on creating solutions that are suited to the particular needs of different industry applications. Innovation often involves high technology – but it doesn't always have to. Some of our best ideas have been simple, based on a clear and deep understanding of our customers' working lives.



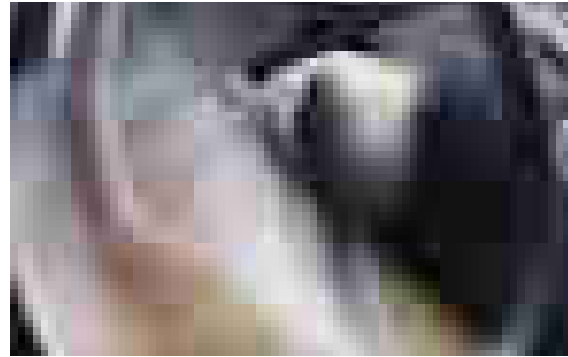
## You learn a lot in 180 years.

Over the years, Volvo has advanced solutions that have revolutionized the use of construction equipment. No other name speaks Safety louder than Volvo. Protecting operators, those around them and minimizing our environmental impact are traditional values that continue to shape our product design philosophy.

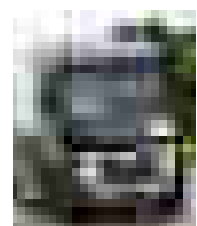
## We're on your side.

We back the Volvo brand with the best people. Volvo is truly a global enterprise, one that is on standby to support customers quickly and efficiently – wherever they are.

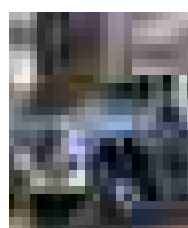
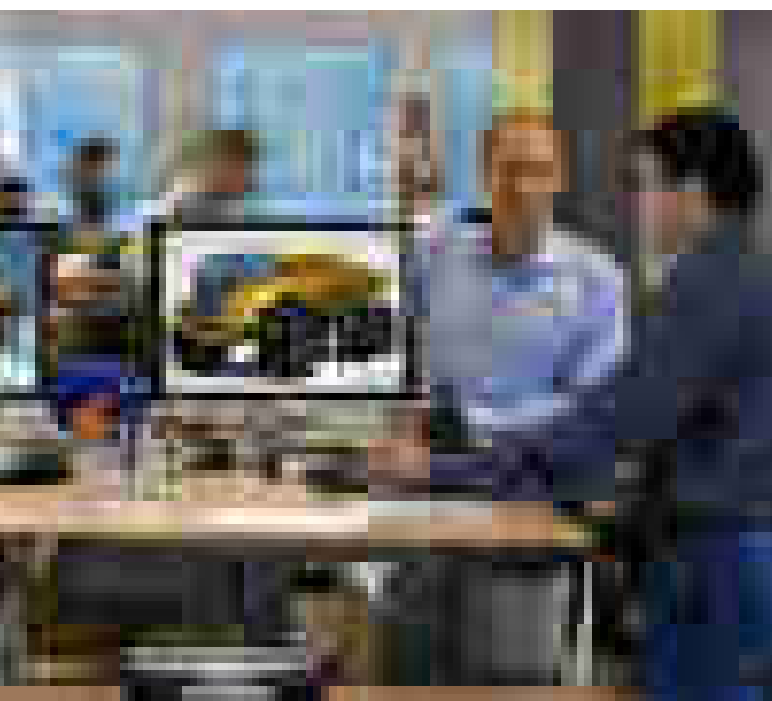
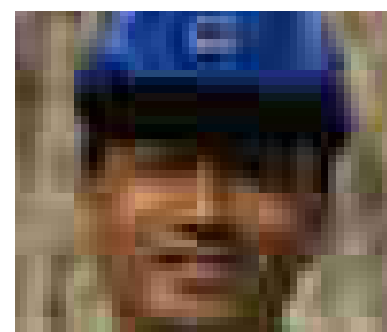
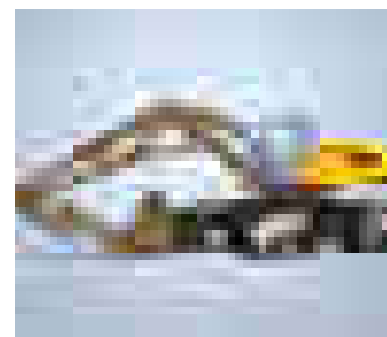
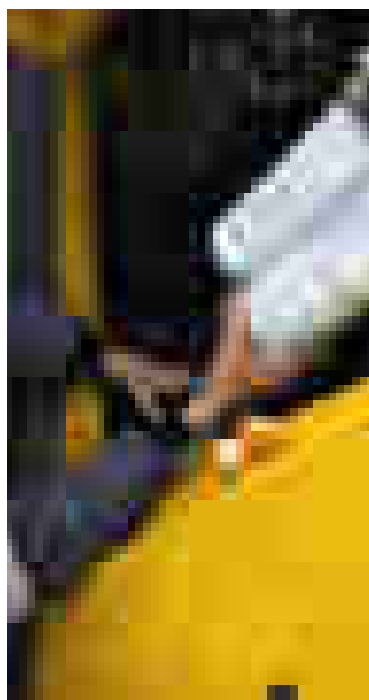
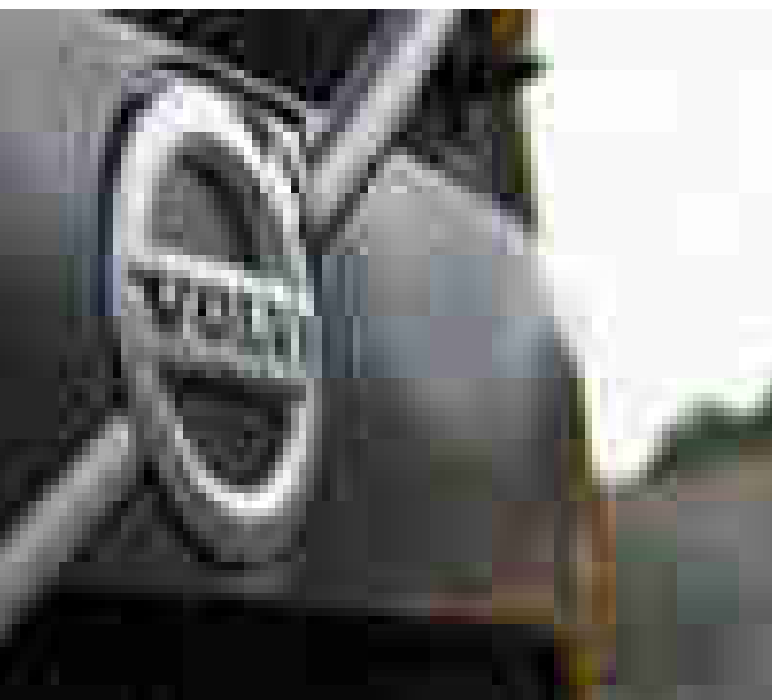
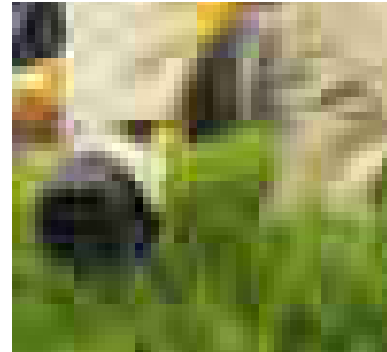
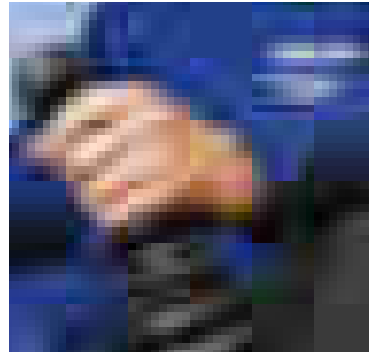
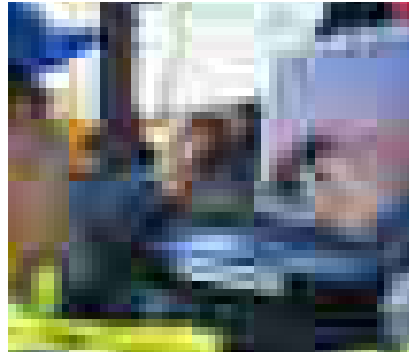
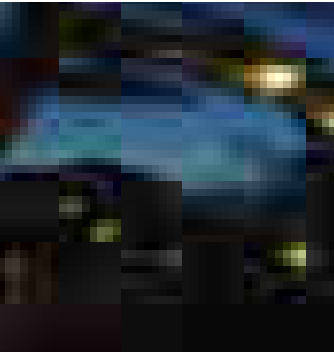
## We have a passion for performance.



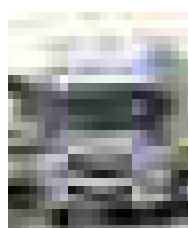
Volvo Trucks



Renault Trucks



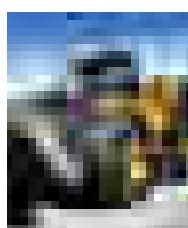
Mack Trucks



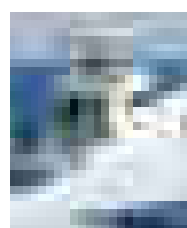
UD Trucks



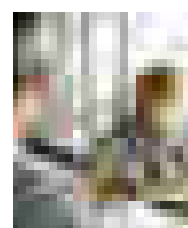
Volvo Buses



Volvo Construction  
Equipment



Volvo Penta



Volvo Financial Services



#### **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.

# The versatility to smoothly do it all.

The Volvo DD100 is your versatile performer, providing flexibility to handle varying conditions, widths and applications, from roadways and large parking lots to airport runways. It's the 10-ton double drum asphalt compactor that gives you complete control in choice of amplitudes, frequency and more. The result is a smooth, finished mat achieved with less passes and more profitability.



## Frequency selections

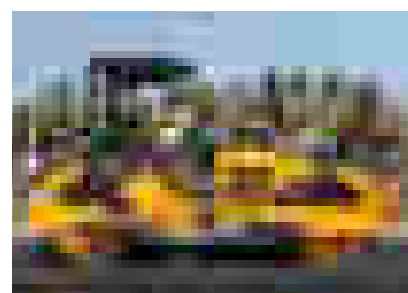
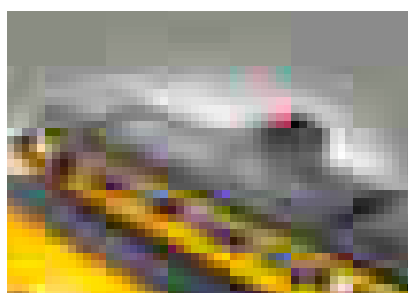
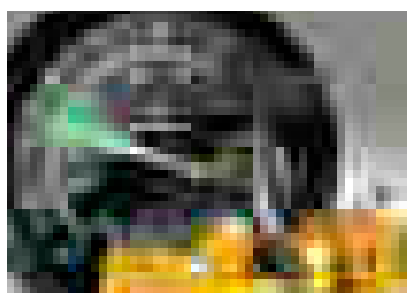
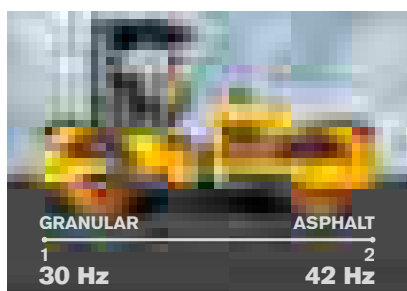
Operator can easily select between eccentric frequencies from the operator's electronic vibration control. Allows the matching of machine performance to production requirements. Improves finished product quality and profitability.



## Automatic eccentric rotation

Eccentric rotation automatically matches the direction of travel, improving mat smoothness with less material distortion. Uses less engine power.

Allows the operator to concentrate on other operational responsibilities, eliminating the possibility of neglecting to change the eccentric rotation.



## Impact spacing meter

Allows the operator to easily monitor the machine's impact spacing with a control panel-mounted meter. Permits adjustments for travel speed allowing the maintenance of the proper impact spacing needed for asphalt smoothness. Improves finished product 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. Improves finished product. Conserves water.



## 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.

# See more. Do more.

## 5-position rotating console

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

## 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.



## 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.



## Frequency selections

Easily select eccentric frequencies from the operator's electronic vibration control, allowing the matching of machine performance to production requirements.

## Automatic vibration

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



#### **Variable water flow control**

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

#### **Powerful, efficient engine**

Cummins Tier 3/Stage III engine delivers plenty of power, performance and environmental emission compliance.



#### **Selectable eight amplitudes**

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



#### **Automatic eccentric rotation**

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

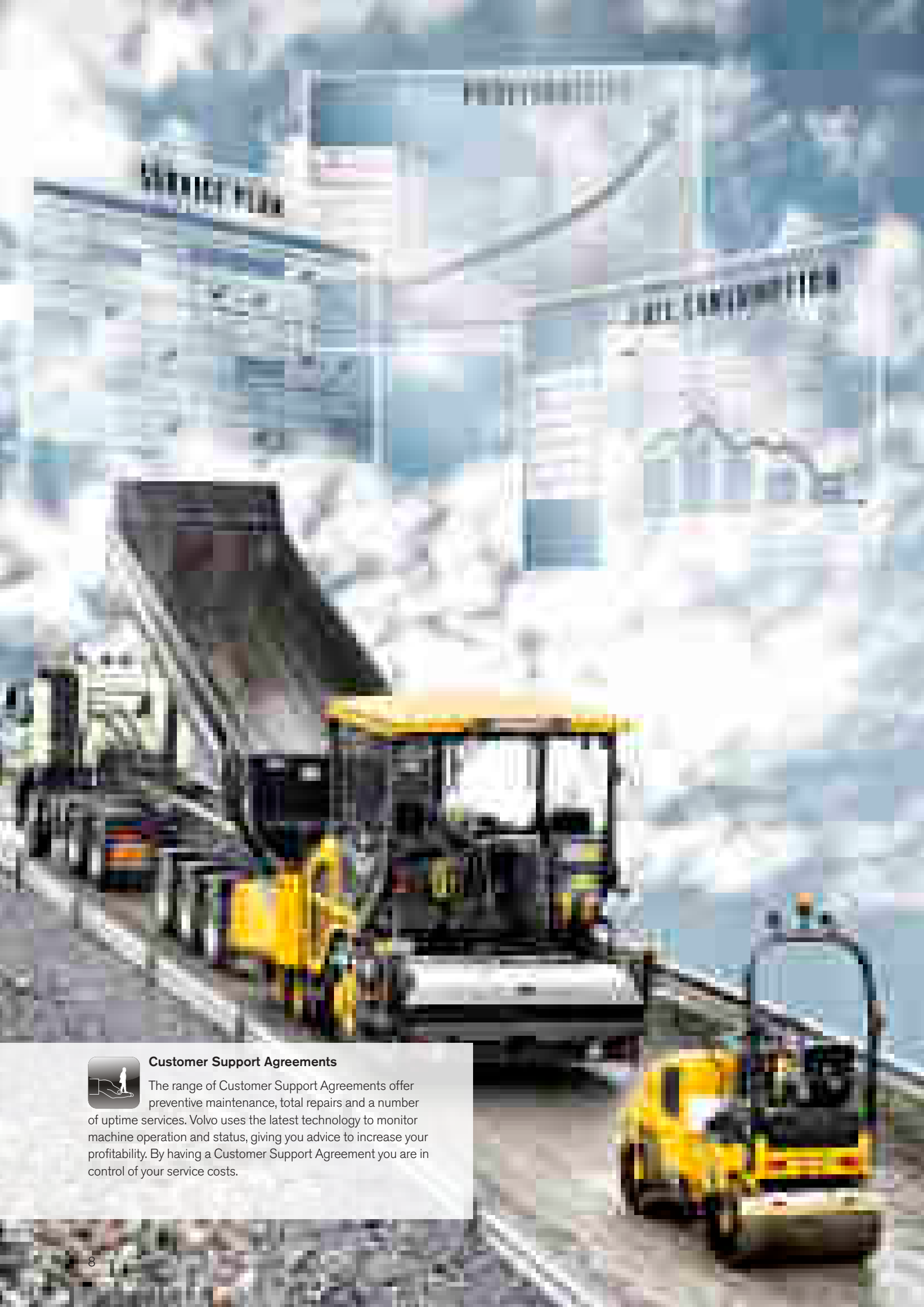


#### **Impact spacing meter**

Easy monitoring of the impact spacing permits travel speed adjustments that help maintain proper asphalt smoothness.

#### **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.



#### **Customer Support Agreements**

The range of Customer Support Agreements offer preventive maintenance, total repairs and a number of uptime services. Volvo uses the latest technology to monitor machine operation and status, giving you advice to increase your profitability. By having a Customer Support Agreement you are in control of your service costs.



# Adding value to your business.

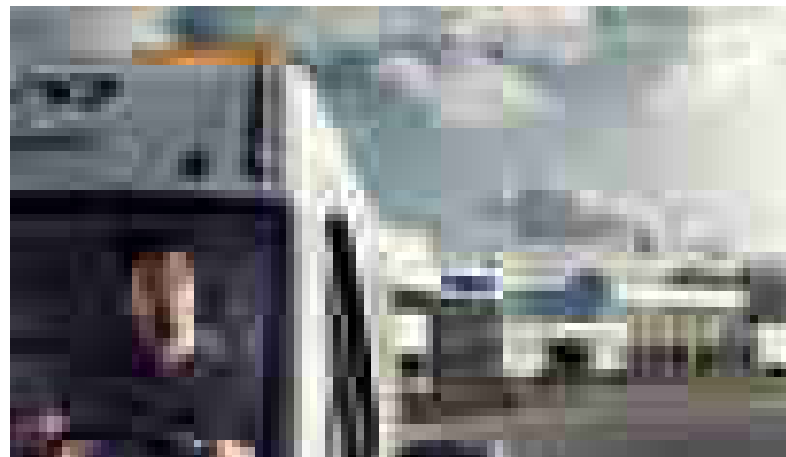
Being a Volvo customer means having a complete set of services at your fingertips. Volvo can offer you a long-term partnership, protect your revenue and provide a full range of customer solutions using high quality parts, delivered by passionate people. Volvo is committed to the positive return of your investment.



## Complete Solutions

Volvo has the right solution for you. So why not let us provide all your needs throughout the whole life cycle

of your machine? By listening to your requirements, we can reduce your total cost of ownership and increase your revenue.



## Genuine Volvo Parts

Our attention to detail is what makes us stand out. This proven concept acts as a solid investment in your machine's future. Parts are extensively tested and approved because every part is vital for uptime and performance. Only by using Genuine Volvo Parts, can you be sure that your machine retains the renowned Volvo quality.



## Service Network

In order to respond to your needs faster, a Volvo expert is on their way to your job site from one of our Volvo facilities. 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

## Machine Weight (w/ ROPS)

Operating Weight	kg	10 025
Static Weight @ Front Drum	kg	5 200
Static Weight @ Rear Drum	kg	4 825
Shipping Weight	kg	9 338

## Drums

Width	mm	1 676
Diameter	mm	1 219
Shell Thickness (nominal)	mm	19
Finish	Machined surface; chamfered & radiused edges	

## Vibration

Frequency	Hz	41.7 / 30.8
Amplitude	mm	0.41 – 1.01
Centrifugal Force Range	kN	63.0 – 116.0
Amplitude Settings	8	

## Propulsion

Type	Closed-loop hydrostatic, parallel circuit to both drums	
Drum Drive	Heavy-duty radial piston motors	
Travel Speed	km/h	0 – 11.4

## Engine

Make / Model	Cummins QSB 4.5, Tier 3	
Engine Type	Turbocharged 4-cylinder	
Rated Power @ Installed Speed	kW	96,9

## Electric

DC, negative ground	Volt	12
Alternator	A	95
Battery (2 absorbed electrolytic)	CCA	800

## Brakes

Service	Dynamic hydrostatic through propulsion system	
Parking / Secondary	SAHR on front-drum & rear-drum drive motors	

## Water System

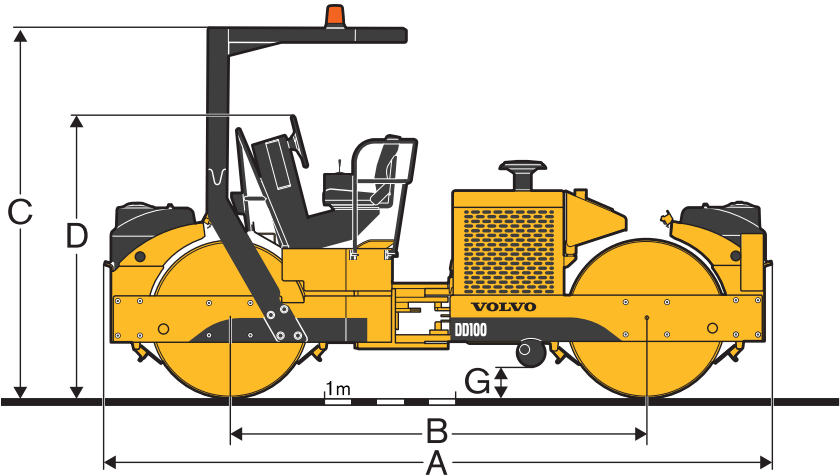
Type	Pressure spray drum wetting system with LDPE water tanks	
Pumps	Diaphragm water pumps, primary & secondary for each drum	
Spray Bars	Primary & secondary spray bars for each drum	
Nozzles	Hand-serviceable fan spray nozzles; 7 main, 6 auxiliary per spray bar	
Filtration	Basket strainer each tank, water filter each pump, fine filter each nozzle	
Drum Wipers	Rubber wiper for each drum	
Water Tank Capacity	492 l each tank	

## Miscellaneous

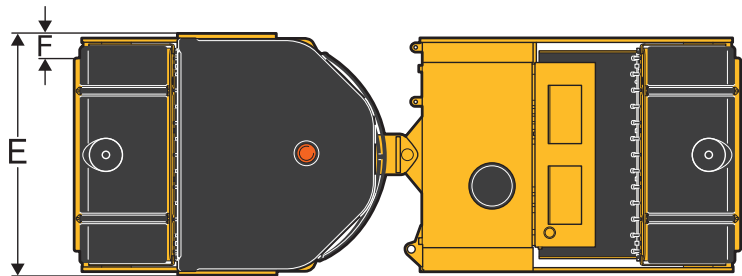
Articulation Angle (center pivot steering) (plus/minus)	°	40
Oscillation Angle (plus/minus)	°	10
Inside Turning Radius (to drum edge)	mm	3 558
Fuel Capacity	l	189
Hydraulic Oil Capacity	l	133
Gradeability (theoretical)	%	24.5

Product improvement is a continuing goal at Volvo. Designs and specifications are subject to change without notice or obligation.

# Equipment



Dimensions		
A Overall Length	mm	5 086
B Drum Base	mm	3 200
C Overall Height (top of ROPS / FOPS)	mm	2 845
D Overall Height (top of steering wheel)	mm	2 210
E Overall Width	mm	1 910
F Side Clearance	mm	117.5
G Curb Clearance	mm	430



## SELECTION OF VOLVO OPTIONAL EQUIPMENT

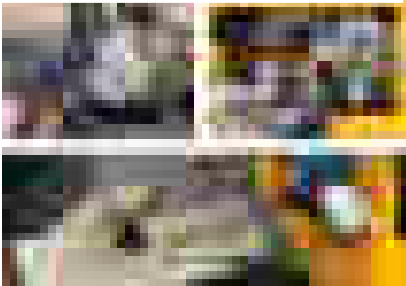
Impact Spacing Meter



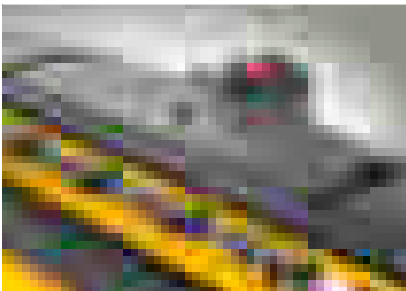
9 Frequency



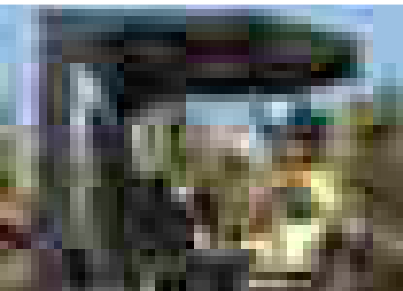
Auxiliary Water Pump



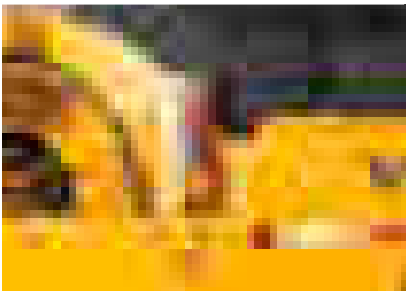
Secondary Spray Bar



ROPS Roof Structure



Lights



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**

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