

VOLVO DOUBLE DRUM COMPACTORS

# DD70, DD70HF



# HIGH PERFORMANCE, HIGH VISIBILITY

It's easy to see why the DD70 and DD70HF vibratory asphalt compactors work so well on roadways and other medium-sized paving jobs. Both the standard model and the DD70HF feature unobstructed visibility of the drum edges and work surface, along with the highest rolling productivity in their weight class. These models are easy to operate, offer adjustable vibration on / off speed settings, an ergonomic console, and the most reliable water spray system in the industry. The operating weight of the DD70 compactors also meets most government static rolling requirements, so you get the most out of your machines.

## Performance Features

- High frequency vibration system offers faster rolling speeds for increased production while maintaining proper drum impact spacing
- Eight amplitude settings achieve required compaction throughout deep lifts and/or stiffer mix designs
- Eccentric rotation automatically matches direction of travel, improving smoothness
- Patented Impact Spacing Meter provides a visual reference for speed control to maintain proper impact spacing, resulting in consistent smoothness
- Two complete, independent water systems include triple water filtration, four water pumps, four spray bars, and variable waterflow

## Serviceability

- Engine, hydraulics, cooling package and electrical system components are easily accessed through strong, light-weight composite gull-wing doors
- Maintenance and service access is unobstructed and at ground level
- Color-coded service chart identifies check point locations, proper lubricants and service intervals

## Visibility

- Five-position rotating operator's station with an adjustable seat provides a smooth ride and comfortable operating environment
- ONE METER BY ONE METER visibility all around the unit

## Additional Standard Features

- Adjustable vibration on / off speed settings at 0,8, 1,6, 2,4, and 3,2 km/h (0.5, 1, 1.5, and 2 mph) for improved vibration control
- Exclusive machined drums with chamfered, radiused drum edges to maintain uniform smoothness while turning
- High curb clearance and narrow wall clearance
- ROPS / FOPS with integral work lights and operator seat belt
- Superior drum spray system for maximum productivity
- Infinitely variable waterflow control to conserve water
- Independent primary and secondary spray systems on each drum

## Available Options

- Back-up alarm
- Urethane wiper
- Gauge package
- High Intensity Discharge (HID) lighting
- Cocoa mat



# SPECIFICATIONS

Model		DD70	DD70HF
<b>Machine Weight (w/ ROPS / FOPS)</b>			
Operating Weight	kg (lb)	6 803 (15,000)	6 755 (14,895)
Static Weight @ Front Drum	kg (lb)	3 311 (7,300)	3 360 (7,410)
Static Weight @ Rear Drum	kg (lb)	3 492 (7,700)	3 395 (7,485)
Shipping Weight	kg (lb)	6 314 (13,920)	6 639 (14,640)
<b>Dimensions</b>			
Overall Length	mm (in)	4 470 (176)	4 470 (176)
Overall Width	mm (in)	1 626 (64)	1 626 (64)
Overall Height (top of steering wheel)	mm (in)	2 200 (86.6)	2 200 (86.6)
Overall Height (top of ROPS / FOPS)	mm (in)	2 832 (111.5)	2 832 (111.5)
Drum Base	mm (in)	2 972 (117)	2 972 (117)
Curb Clearance	mm (in)	559 (22)	559 (22)
Inside Turning Radius (to drum edge)	mm (in)	3 582 (141)	3 582 (141)
<b>Drums</b>			
Width	mm (in)	1 448 (57)	1 448 (57)
Diameter	mm (in)	1 046 (41.2)	1 046 (41.2)
Shell Thickness (nominal)	mm (in)	20 (0.8)	20 (0.8)
Finish		Machined surface; chamfered and radiused edges	
<b>Vibration</b>			
Frequency	Hz (vpm)	55 (3,300)	66,7 (4,000)
Amplitude	mm (in)	0,27 - 0,54 (0,011 - 0,021)	0,16 - 0,43 (0,006 - 0,017)
Centrifugal Force Range	kN (lb)	40 - 80 (8,940 - 17,970)	35 - 94 (7,820 - 21,080)
Amplitude Settings		8	8
<b>Propulsion</b>			
Type		Closed-loop hydrostatic, parallel circuit to both drums	
Drum Drive		Heavy-duty radial piston LSHT motors	
Travel Speed	km/h (mph)	0 - 10,7 (0 - 6.6)	0 - 10,7 (0 - 6.6)
<b>Engine</b>			
Make / Model		Cummins 4B NA, Tier 2	
Engine Type		Naturally aspirated 4-cylinder	
Rated Power @ 2,500 rpm	kW (hp)	60 (80)	60 (80)
Electrical		12 volts DC, negative ground; 95 A alternator	
Battery		1 absorbed electrolytic, 800 CCA	
<b>Brakes</b>			
Service		Dynamic hydrostatic through propulsion system	
Parking / Secondary		SAHR on front-drum and rear-drum drive motors	
<b>Water System</b>			
Type		Pressure spray drum wetting system with LDPE water tanks	
Pumps		Diaphragm water pumps, primary and secondary for each drum	
Spray Bars		Primary and secondary spray bars for each drum	
Nozzles		Hand-serviceable fan spray nozzles; 5 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	l (gal)	776 (205)	776 (205)
<b>Miscellaneous</b>			
Articulation Angle (center pivot steering)		+ / - 40°	+ / - 40°
Oscillation Angle		+ / - 10°	+ / - 10°
Fuel Capacity	l (gal)	140 (37)	140 (37)
Hydraulic Oil Capacity	l (gal)	64 (17)	64 (17)
Gradeability (theoretical)		40%	40%

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

## Additional Options

- Cocoa mats
- Edge compactor, cutter
- Gauge package

- High intensity discharge lighting
- Inside drum wiper bars

- Offset drum
- Strobe light
- Mat temperature sensor



# VOLVO CONSTRUCTION EQUIPMENT

Volvo Construction Equipment is different. Our machines are designed, built and supported in a different way. That difference comes from an engineering heritage of over 180 years. A heritage of thinking first about the people who actually use the machines. About how to help them be safer, more comfortable, more productive. About the environment we all share. The result of that thinking is a growing range of machines and a global support network dedicated to helping you do more. People around the world are proud to use Volvo.

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

Ref. No 20000257-C  
2012.07  
Volvo, Global Marketing

English-21  
COA