



Volvo Construction Equipment

# DD31<sub>HF</sub>, DD38<sub>HF</sub>

Volvo Double Drum Compactors 3.1-3.8 t 31.3 kW



# Ultra performance in a smaller package

Volvo DD31HF and DD38HF vibratory compactors offer high performance for both commercial and main-line paving contractors in all three critical areas of compaction: productivity, density, and smoothness. Both models also have full-day fuel operation, large water capacity, and high frequency, making efficiency a strength of this line.

## Performance Features

### • Comfort and safety

- Isolated vibratory drums and 4-point isolation of the operator platform to minimize vibration feedback
- Dual-side access, spring-applied, hydraulically released parking brake with test switch, Roll Over Protective Structure (ROPS), emergency stop switch, seat switch, and propulsion control with neutral start
- Seat belt warning system: continuous alarm until seat belt is fastened
- Fully adjustable sliding seat

### • Drum performance

- Durable carbon steel and thick shells prolong drum life

### • Gradeability and tractability

- The TwinLock™ traction control and torque transfer system minimizes drum slippage, delivering superior drum control at all speeds and in both directions

### • Industry-leading water system

- 299 l water tank, standard pressurized water system, hand-serviceable water nozzles, and double-filtration
- Water flows only when the compactor is moving (in automatic mode)

### • Serviceability

- Unobstructed daily checkpoints, easy-to-lift engine enclosure, plus ground-level access to the engine, radiator, battery, and filters
- Color-coded service charts show detailed checkpoints, service intervals, and proper lubricants

## Options

- Cocoa mats
- Edge compactor
- Flashing strobe
- Foldable ROPS
- Gauge package (includes engine coolant temperature, engine oil pressure and voltmeter)
- Hazard and turn signals
- Inside wipers
- LED high intensity work lights
- Low fuel alarm
- Remote hydraulic test ports
- Special paint
- Steering knob
- Urethane wipers
- Vandal cover
- Water strainer



# Specifications

Model		DD31HF	DD38HF
<b>Machine Weight (w/ ROPS / FOPS)</b>			
Operating Weight	kg	3 102	3 809
Static Weight @ Front Drum	kg	1 419	1 780
Static Weight @ Rear Drum	kg	1 682	2 029
Shipping Weight	kg	2 871	3 577
<b>Dimensions</b>			
Length	mm	2 556	2 556
Width	mm	1 363	1 485
Height (top of steering wheel)	mm	1 826	1 826
Height (top of ROPS)	mm	2 527	2 529
Drum Base	mm	1 725	1 725
<b>Drums</b>			
Width	mm	1 250	1 375
Diameter	mm	736	739
Shell Thickness (nominal)	mm	14	16
Finish		Machined / chamfered edge	
<b>Vibration</b>			
Frequency	Hz	70	70
Centrifugal Force	kN	36	36
Nominal Amplitude	mm	0.38	0.33
Lubrication		Oil splash	
Type System		Open-loop, series circuit	
Vibrating Drums		Both or front only	
Vibration Isolation		6 shear block isolators per drum	
<b>Propulsion</b>			
Type		Closed-loop, hydrostatic, TwinLock	
Drum Drive		Pump: axial-piston; Motor: radial piston, low-speed, high-torque	
Speed Range	km/h	0 - 10	0 - 10
Gradeability (theoretical)		49%	38%
<b>Engine</b>			
Make / Model		Kubota V2203M Tier 4A	
Engine Type		4-cylinder diesel	
Rated Power @ Installed Speed	kW	31,3	31,3
Electrical		12 volts DC, negative ground; 40 A alternator	
Battery		800 CCA	800 CCA
<b>Brakes</b>			
Service		Dynamic hydrostatic through propulsion system	
Parking / Secondary		Spring-applied, hydraulically released on each drum drive	
<b>Steering</b>			
Design		Centerpoint articulation	
Type System		Double-acting, hydraulic, single-cylinder	
Articulation Angle		+ / - 30°	+ / - 30°
Outside Turning Radius	mm	3 847	3 907
<b>Water System</b>			
Type		Pressurized	
Pump		Electric, diaphragm	
Nozzle Quantity Per Drum		5 hand-serviceable nozzles	
Tank Capacity	l	299	299
Filters		100 mesh screen @ nozzles, 80 mesh in-line	
Drum Wipers Type		Spring-loaded, self-adjusting, neoprene wipers	
<b>Miscellaneous</b>			
Fuel Capacity	l	68	68
Hydraulic Capacity	l	84,8	84,8
Oscillation		+ / - 10°	+ / - 10°
Curb Clearance	mm	483	608
	Traction	615	615
Side Clearance	mm	57	57

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

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