

VOLVO DOUBLE DRUM COMPACTOR
DD31HF, DD38HF



MORE CARE. BUILT IN.



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 brake (SAHR), 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 (79 gal) 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
Machine Weight (w/ ROPS / FOPS)			
Operating Weight	kg (lb)	3 102 (6,840)	3 809 (8,400)
Static Weight @ Front Drum	kg (lb)	1 419 (3,130)	1 780 (3,925)
Static Weight @ Rear Drum	kg (lb)	1 682 (3,710)	2 029 (4,475)
Shipping Weight	kg (lb)	2 871 (6,330)	8 577 (7,888)
Dimensions			
Length	mm (in)	2 556 (101)	2 556 (101)
Width	mm (in)	1 363 (53.7)	1 485 (58.5)
Height (top of steering wheel)	mm (in)	1 826 (71.9)	1 826 (71.9)
Height (top of ROPS)	mm (in)	2 527 (99.5)	2 529 (99.5)
Drum Base	mm (in)	1 725 (67.9)	1 725 (67.9)
Drums			
Width	mm (in)	1 250 (49.2)	1 375 (54.1)
Diameter	mm (in)	736 (29)	739 (29.1)
Shell Thickness (nominal)	mm (in)	14 (0.55)	16 (0.63)
Finish		Machined / chamfered edge	
Vibration			
Frequency	Hz (vpm)	70 (4,200)	70 (4,200)
Centrifugal Force	kN (lb)	36 (8,200)	36 (8,200)
Nominal Amplitude	mm (in)	0,38 (0.015)	0,33 (0.013)
Lubrication		Oil splash	
Type System		Open-loop, series circuit	
Vibrating Drums		Both or front only	
Vibration Isolation		6 shear block isolators per drum	
Propulsion			
Type		Closed-loop, hydrostatic, TwinLock	
Drum Drive		Pump: axial-piston; Motor: radial piston, low-speed, high-torque	
Speed Range	km/h (mph)	0 - 10 (0 - 6.2)	0 - 10 (0 - 6.2)
Gradeability (theoretical)		49%	38%
Engine			
Make / Model		Kubota V2203M Tier 4A	
Engine Type		4-cylinder diesel	
Rated Power @ Installed Speed	kW (hp)	31,3 (42)	31,3 (42)
Electrical		12 volts DC, negative ground; 40 A alternator	
Battery		800 CCA	800 CCA
Brakes			
Service		Dynamic hydrostatic through propulsion system	
Parking / Secondary		Spring-applied, hydraulically released on each drum drive	
Steering			
Design		Centerpoint articulation	
Type System		Double-acting, hydraulic, single-cylinder	
Articulation Angle		+ / - 30°	+ / - 30°
Outside Turning Radius	mm (in)	3 847 (151.5)	3 907 (153.8)
Water System			
Type		Pressurized	
Pump		Electric, diaphragm	
Nozzle Quantity Per Drum		5 hand-serviceable nozzles	
Tank Capacity	l (gal)	299 (79)	299 (79)
Filters		100 mesh screen @ nozzles, 80 mesh in-line	
Drum Wipers Type		Spring-loaded, self-adjusting, neoprene wipers	
Miscellaneous			
Fuel Capacity	l (gal)	68 (18)	68 (18)
Hydraulic Capacity	l (gal)	84,8 (22.4)	84,8 (22.4)
Oscillation		+ / - 10°	+ / - 10°
Curb Clearance	mm (in) Vibration	483 (19)	608 (23.9)
	Traction	615 (24.2)	615 (24.2)
Side Clearance	mm (in)	57 (2.2)	57 (2.2)

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



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 175 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. And we're proud of what makes Volvo different – **More care. Built in.**



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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