



Volvo Construction Equipment

DD31_{HF}, DD38_{HF}

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
Machine Weight (w/ ROPS / FOPS)			
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
Dimensions			
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
Drums			
Width	mm	1 250	1 375
Diameter	mm	736	739
Shell Thickness (nominal)	mm	14	16
Finish		Machined / chamfered edge	
Vibration			
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	
Propulsion			
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%
Engine			
Make / Model		Kubota V2203M Tier 4A	
Engine Type		4-cylinder diesel	
Output at installed speed	kW HP	31.4 at 2 450 rpm 42.1 at 2 450 rpm	31.4 at 2 450 rpm 42.1 at 2 450 rpm
Electrical		12 volts DC, negative ground; 40 A alternator	
Battery		800 CCA	800 CCA
Brakes		Dynamic hydrostatic through propulsion system	
Service		Spring-applied, hydraulically released on each drum drive	
Parking / Secondary			
Steering			
Design		Centerpoint articulation	
Type System		Double-acting, hydraulic, single-cylinder	
Articulation Angle		+ / - 30°	+ / - 30°
Outside Turning Radius	mm	3 847	3 907
Water System			
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	
Miscellaneous			
Fuel Capacity	l	68	68
Hydraulic Capacity	l	84.8	84.8
Oscillation		+ / - 10°	+ / - 10°
Curb Clearance	mm Vibration Traction	483 615	608 615
Side Clearance	mm	57	57
Sound Level			
Operator's Ear, acc. to ISO 6396	LpA dB(A)		86
External, acc. to ISO 6395 (Directive 2000/14/EC)	LwA dB(A)		106

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