



Volvo Construction Equipment

# DD38<sub>HF</sub>

Volvo Double Drum Compactors 3.8 t / 8,400 lb 42 hp



# Ultra performance in a smaller package

Volvo 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 (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                                  |                   | DD38HF   |
|--|-------------------|--|
| <b>Machine Weight (w/ ROPS / FOPS)</b> |                   |  |
| Operating Weight                       | kg (lb)           | 3 809 (8,400)  |
| Static Weight @ Front Drum             | kg (lb)           | 1 780 (3,925)  |
| Static Weight @ Rear Drum              | kg (lb)           | 2 029 (4,475)  |
| Shipping Weight                        | kg (lb)           | 3 577 (7,888)  |
| <b>Dimensions</b>                      |                   |  |
| Length                                 | mm (in)           | 2 556 (101)  |
| Width                                  | mm (in)           | 1 485 (58.5)   |
| Height (top of steering wheel)         | mm (in)           | 1 826 (71.9)   |
| Height (top of ROPS)                   | mm (in)           | 2 529 (99.5)   |
| Drum Base                              | mm (in)           | 1 725 (67.9)   |
| <b>Drums</b>                           |                   |  |
| Width                                  | mm (in)           | 1 375 (54.1)   |
| Diameter                               | mm (in)           | 739 (29.1)   |
| Shell Thickness (nominal)              | mm (in)           | 16 (0.63)  |
| Finish                                 |                   | Machined / chamfered edge  |
| <b>Vibration</b>                       |                   |  |
| Frequency                              | Hz (vpm)          | 70 (4,200)   |
| Centrifugal Force                      | kN (lb)           | 36 (8,200)   |
| Nominal Amplitude                      | mm (in)           | 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                                 |
| <b>Propulsion</b>                      |                   |  |
| Type                                   |                   | Closed-loop, hydrostatic, TwinLock                               |
| Drum Drive                             |                   | Pump: axial-piston; Motor: radial piston, low-speed, high-torque |
| Speed Range                            | km/h (mi/h)       | 0 - 10 (0 - 6.2)   |
| Gradeability (theoretical)             |                   | 0.38   |
| <b>Engine</b>                          |                   |  |
| Make / Model                           |                   | Kubota V2203M Tier 4A  |
| Engine Type                            |                   | 4-cylinder diesel  |
| Rated Power @ Installed Speed          | kW (hp)           | 31.4 (42.1)  |
| Electrical                             |                   | 12 volts DC, negative ground; 40 A alternator                    |
| Battery                                |                   | 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°  |
| Outside Turning Radius                 | mm (in)           | 3 907 (153.8)  |
| <b>Water System</b>                    |                   |  |
| Type                                   |                   | Pressurized  |
| Pump                                   |                   | Electric, diaphragm  |
| Nozzle Quantity Per Drum               |                   | 5 hand-serviceable nozzles                                       |
| Tank Capacity                          | l (gal)           | 299 (79)   |
| Filters                                |                   | 100 mesh screen @ nozzles, 80 mesh in-line                       |
| Drum Wipers Type                       |                   | Spring-loaded, self-adjusting, neoprene wipers                   |
| <b>Miscellaneous</b>                   |                   |  |
| Fuel Capacity                          | l (gal)           | 68 (18)  |
| Hydraulic Capacity                     | l (gal)           | 84.8 (22.4)  |
| Oscillation                            |                   | + / - 10°  |
| Curb Clearance                         | mm (in) Vibration | 608 (23.9)   |
|  | Traction          | 615 (24.2)   |
| Side Clearance                         | mm (in)           | 57 (2.2)   |
| <b>Guaranteed Sound Level</b>          |                   |  |
| Operator's Ear, acc. to ISO 11203:2009 | LpA dB(A)         | 86   |
| External, acc. to Directive 2000/14/EC | LwA dB(A)         | 106  |

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