

VOLVO SINGLE DRUM COMPACTORS

SD116DX, SD116F



HANDLE IT ALL, INCLUDING STEEP GRADES

Nothing is too tough for the SD116DX and SD116F single drum soil compactors, not even steep grades. A built-in Ultra-Grade® traction system enhances grade-climbing grip, extending versatility on the most difficult terrain. In addition to axles and drive motors specifically designed for climbing, these compactors are powered by a heavy-duty, 119 kW (**160 hp**) Cummins turbocharged diesel engine providing abundant torque to propel the SD116DX and SD116F over both highly cohesive and granular soils.

Serviceability

One-piece, rear-hinged engine cover for complete access and tilting operator platform for hydraulic access.

Performance Features

- Variable frequency and dual amplitude
- Capability to match vibration frequency to natural frequency of material to achieve optimum compaction

Visibility

- ONE METER BY ONE METER visibility

Safety

- ROPS / FOPS with seat belts
- Safety features include skid-resistant deck with footrest, dual deck rails, seat switch, back-up alarm, horn, and emergency stop

Operator Comfort

- 6-way adjustable premium suspension seat with swivel feature
- Control console includes cup holder and storage
- Premium shock-mounted operator platform
- Tilting steering column with console displaying gauges and switches

Available Options

- Air pre-cleaner
- Patented two-piece clamp-on padfoot drum shell kit: adds 1 361 kg (**3,000 lb**)
- Strike-off blade (padfoot model only)
- VPM meter and speedometer
- Automatic vibration on / off and impact meter

Option Packages

Lights Package

- work light
- beacon lights

- vandal cover

Gauge Package

- volt meter
- engine oil pressure gauge

Climate Control Package

- cab with heat and air conditioning

Power to Perform

The Ultra-Grade® traction system is a full-time system providing excellent climbing ability. Additionally, heavy-duty drum drive components and a rear axle with a No-Spin® differential provide application flexibility.



SPECIFICATIONS

| Model | | SD116DX | SD116F |
|---|-------------------------|---|--------------------------------|
| Machine Weights (w/ ROPS / FOPS) | | | |
| Operating Weight (CECE) | kg (lb) | 10 852 (23,930) | 11 360 (25,050) |
| Static Weight @ Drum | kg (lb) | 6 213 (13,700) | 6 598 (14,550) |
| Static Weight @ Tires | kg (lb) | 4 639 (10,230) | 4 762 (10,500) |
| Shipping Weight | kg (lb) | 10 716 (23,630) | 11 224 (24,750) |
| Machine Dimensions | | | |
| Length | mm (in) | 5 895 (232) | 5 895 (232) |
| Width | mm (in) | 2 286 (90) | 2 286 (90) |
| Height (top of ROPS / FOPS) | mm (in) | 3 091 (121.7) | 3 146 (123.9) |
| Wheelbase | mm (in) | 3 100 (122) | 3 100 (122) |
| Curb Clearance | mm (in) | 483 (19) | 483 (19) |
| Inside Turning Radius (to drum edge) | mm (in) | 3 463 (136) | 3 463 (136) |
| Drum | | | |
| Width | mm (in) | 2 134 (84) | 2 134 (84) |
| Diameter | mm (in) | 1 499 (59) | 1 295 (51) |
| Shell Thickness | mm (in) | 25 (1) | 25 (1) |
| Diameter Over Pad Feet | mm (in) | - | 1 549 (61) |
| Number Of Pad Feet | | - | 112 |
| Pad Height | mm (in) | - | 127 (5) |
| Pad Tip Area | cm ² (sq in) | - | 135,3 (21) |
| Vibration | | | |
| Frequency | Hz (vpm) | 31 – 34 (1,870 – 2,018) | 27,5 – 34 (1,650 – 2,025) |
| Centrifugal Force | kN (lb) High | 271 (61,000) | 271 (61,000) |
| | Low | 213 (47,900) | 264 (59,400) |
| Nominal Amplitude | mm (in) High | 1,92 (0.076) | 2,21 (0.087) |
| | Low | 1,29 (0.051) | 1,44 (0.057) |
| Propulsion | | | |
| Type System | | Hydrostatic, 2-speed motors on planetary axle and drum drive w/ No-Spin® differential | |
| Tire Size | mm (in) | 587 x 660 (23.1 x 26) – 8PR R3 | 587 x 660 (23.1 x 26) – 8PR R1 |
| Travel Speed | km/h (mph) High | 0 – 13,1 (0 – 8.1) | 0 – 13 (0 – 8.1) |
| | Low | 0 – 5 (0 – 3.1) | 0 – 5 (0 – 3.1) |
| Engine | | | |
| Make / Model | | Cummins QSB6.7 | Cummins QSB6.7 |
| Engine Type | | Turbocharged 6-cylinder, Tier 3 | |
| Rated Power @ Installed Speed | kW (hp) | 119 (160) | 119 (160) |
| Electrical System | | 12 volts DC, negative ground; 95 A alternator; two 750 CCA batteries | |
| Brakes | | | |
| Service | | Dynamic hydrostatic through propulsion system | |
| Parking / Secondary | | Spring-applied, hydraulically released on axle and drum drive motors | |
| Miscellaneous | | | |
| Articulation Angle | | + / - 38° | + / - 38° |
| Oscillation Angle | | + / - 17° | + / - 17° |
| Fuel Capacity | l (gal) | 257 (68) | 257 (68) |
| Hydraulic Oil Capacity | l (gal) | 84 (22) | 84 (22) |
| Gradeability (theoretical) | | 84% | 77% |

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

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

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