

V O L V O



Volvo Single Drum Compactors 10.9-12.0 t 99 kW

SD110

Volvo Construction Equipment



Welcome to our world

Welcome to a world of industry leading machinery. A world where imagination, hard work and technological innovation will lead the way towards developing a future which is cleaner, smarter, and more connected. A world supported by the enduring values of the Volvo Group. A world of stability, sustainability and innovation. A world which we put our customers at the heart of.

Welcome to the world of Volvo Construction Equipment – we think you're going to like it here.

The road to success

Our range of road machinery combines the heritage of the Blaw Knox, Ingersoll Rand and ABG brands with the engineering excellence of Volvo. The result is a line-up of Volvo pavers and compactors which achieve an unrivalled level of quality, in both paving and compaction applications.

Building on our proud history, we continue to innovate our products to offer customers the best solutions for their operation. Our Compact Assist and Pave Assist products are just two examples of how we are developing intelligent solutions to ensure our machines deliver world-class performance and results long into the future.



Solutions for you

Our industry leading machines are just the start of your relationship with Volvo. As your partner, we have developed an extensive range of additional solutions to help you improve uptime, boost productivity and reduce costs.

Designed for your business

Structured across nine blocks, our portfolio of products and services are designed to complement your machine's performance and boost your profitability. Simply put, we offer some of the best guarantees, warranties and technological solutions in the industry today.

There when you need us

Whether you're buying new or used, our global network of dealers and technicians offer around-the-clock support, including machine monitoring and world-class parts availability. It's the basis of everything offered by Volvo Services, so you can be confident we've got you covered right from the start.

| | | |
|---|---|---|
|  <p>Fuel Efficiency Services</p> |  <p>Productivity Services</p> |  <p>Safety Services</p> |
|  <p>Financial Services</p> |  <p>Uptime Services</p> |  <p>Rental Services</p> |
|  <p>Volvo Attachments</p> |  <p>Genuine Volvo Parts</p> |  <p>New life Services</p> |

BUILDING TOMORROW

Compact it all

From site preparation, to highways, utilities and more, the proven Volvo SD110 is ready to take on all your compaction projects. Featuring a striking new design, the 11-ton class compactor delivers the power drum performance to achieve outstanding results when working with soils and aggregates.

The right amplitude

Dynamic drum forces are increased (high) or decreased (low) with the flick of a switch to adapt to a range of conditions.



Power to perform

The 133hp Volvo Tier 3/Stage III D5 engine delivers a powerful, reliable and efficient performance, and complies with the latest emissions standards.



Select your speed

Achieve optimum output and fast cycle times with the two-speed transmission. Low speed operation is the ideal choice for jobsite work and high-speed drive can be selected for quick travel across and between sites.



Smooth and stable

The center joint provides +/- 40 degrees of articulation left and right and +/- 17 degrees of drum frame to tractor frame oscillation. The result is uniform compaction and greater operator comfort over rough terrain.





THE PERFECT BALANCE

Optimum machine weight balance at the drum and tires, results in superior climbing and traction capabilities. The heavy drum weight, Single frequency and Dual amplitude, as well as high centrifugal force, all combine to achieve material target density in fewer passes.

Comfortably productive

Compaction is easier and more efficient in the SD110 from Volvo. Experience a comfortable, safe and productive work shift thanks to all-round visibility and a range of comfort-enhancing features.



Control in reach

With all controls ergonomically positioned, the control panel is built with ease of operation in mind. The single lever propulsion and vibration control is conveniently located within the operator's reach. The auto vibration control on the panel also increases ease of operation and productivity.



A CLEAR VIEW

The seated operator has 1 meter by 1 meter visibility, increasing jobsite safety and reducing the risk of machine damage. Side-mounted mirrors further enhance visibility to the side and rear of the machine, and high visibility orange steps and handrails help operators to safely enter and exit the machine.

Keep on rolling

Uptime you can count on. The reliable and easy-to-service machine combines with a range of solutions to keep you working and earning, including maintenance agreements, parts and dealer support.



Total support

From trained technicians and perfectly matched Genuine Volvo Parts, to maintenance and repair agreements, Volvo is here to provide a wide range of solutions to help you boost your profits for the long run. Speak to your Volvo dealer to find out more about Volvo Services.



GROUND-LEVEL MAINTENANCE

The SD110 is designed for efficient maintenance and inspections. The engine hood lifts up, providing ground level access to the engine and hydraulic components. Key service check points are grouped on one side of the compactor to reduce downtime.

Packed with benefits

Two-speed transmission

Hydrostatic axle drive is equipped with a two-speed, variable piston transmission, for optimum work and transport speeds.

Bright handrails and steps

High-visibility orange handrails and steps support safe and easy entrance and exit to the machine in low-light conditions.

Ground-level maintenance

Hood opening and closing from the ground level allows routine maintenance and inspections to be easily completed.

Powerful Volvo engine

Designed to reduce emissions and increase efficiency, the Volvo engine ensures you have the optimum level of power for your operation.

Stable maneuvering

Articulation joint provides +/- 17° oscillation angle and frame articulation of +/- 40°, for greater stability and maneuverability.

No-spin axles

Heavy-duty, no-spin differential axles restrict the two wheels to the same rotational speed, providing increased traction and gradeability.

Ergonomic operator controls

The new operator control panel offers propulsion and vibration controls conveniently located on the operator's right-hand side. The auto vibration control on the panel also increases ease of operation and productivity.

Superior drum performance

Single frequency and Dual Amplitude, and optimized centrifugal force, match drum performance to the application.

ROPS/FOPS canopy

Protects the operator in the event of machine roll over and/or overhead falling objects.

The perfect balance

Weight is balanced at the drum and tires, leading to enhanced traction.

A clear view

The operator benefits from a 1m x 1m visibility. A side-mirror on the ROPS canopy further enhances visibility to the side. The result is increased safety and productivity.

Dual drum amplitude

The operator can select between high or low amplitude, according to the required application or material depth.



Specifications

| | | |
|--------------------------------------|--|---|
| Model | SD110 | |
| Drum Type | Drum drive with standard eccentric | |
| Machine Weights | | |
| Operating Weight (CECE) | kg | 11 212 |
| Static Weight @ Drum | kg | 6 240 |
| Static Weight @ Tires | kg | 4 972 |
| Shipping Weight | kg | 10 963 |
| Drum | | |
| Width | mm | 2 134 |
| Diameter | mm | 1 500 |
| Shell Thickness | mm | 25 |
| Vibration | | Standard Amplitude Eccentric |
| Frequency | Hz | 30 |
| Centrifugal Force | High kN | 242 |
| | Low kN | 130 |
| Nominal Amplitude | High mm | 1.9 |
| | Low mm | 1 |
| Propulsion | | |
| Type System | Hydrostatic, single-speed motor on planetary axle with No-Spin (R) differential and 2-speed drum drive motor | |
| Tire Size | 587 x 660 (23.1-26 R3 8PR TL) | |
| Drum Drive | 2-speed motor into planetary gear reduction | |
| Travel Speed | | |
| High | km/h | 0 – 13 |
| Low | km/h | 0 – 9 |
| Engine | | |
| Make & Model | Volvo D5D GAE3 | |
| Engine Type | Turbocharged and Liquid cooled 4-cylinder | |
| Rated Power @ 2 200 Speed | kW | 99 |
| Electrical System | | |
| DC, negative ground | Volt | 12 |
| Alternator | ISKRA, 0118 3181 KZ, 12 Volt | |
| Batteries | cca | 1 000 |
| Brakes | | |
| Service | Dynamic hydrostatic through propulsion system | |
| Parking / Secondary | Spring-applied, hydraulically released on axle and drum drive motors | |
| Miscellaneous | | |
| Articulation Angle (plus/minus) | ° | 40 |
| Oscillation Angle (plus/minus) | ° | 17 |
| Inside Turning Radius (to drum edge) | mm | 3 652 |
| Fuel Capacity | l | 270 |
| Hydraulic Oil Capacity | l | 125 |
| Gradeability (theoretical) | % | 52 |

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

SELECTION OF VOLVO OPTIONAL EQUIPMENT

Bolt-on padfoot shell kit



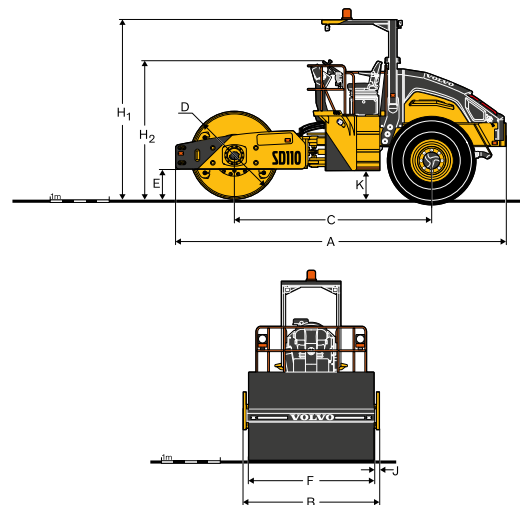
Compaction gauge



LED lights



LED beacon



DIMENSIONS

| | | |
|----------------|----|-------|
| A | mm | 5 640 |
| B | mm | 2 310 |
| C | mm | 3 342 |
| D | mm | 1 500 |
| E | mm | 521 |
| F | mm | 2 134 |
| G | mm | 2 100 |
| H ₁ | mm | 3 090 |
| H ₂ | mm | 2 350 |
| J | mm | 91 |
| K | mm | 512 |

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.

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