SD75B, SD115B

Volvo Single Drum Compactors  7-11.8 t / 15,430-26,000 lb  74-147 hp
A passion for performance

At Volvo Construction Equipment, we’re not just coming along for the ride. Developing products and services that raise productivity – we are confident we can lower costs and increase profits for customers around the globe. Part of the Volvo Group, we are passionate about innovative solutions to help you work smarter – not harder.

Helping you to do more

Doing more with less is a trademark of Volvo Construction Equipment. High productivity has long been married to low energy consumption, ease of use and durability. When it comes to lowering life-cycle costs, Volvo is in a class of its own.

Designed to fit your needs

There is a lot riding on creating solutions that are suited to the particular needs of different industry applications. Innovation often involves high technology – but it doesn’t always have to. Some of our best ideas have been simple, based on a clear and deep understanding of our customers’ working lives.

You learn a lot in 180 years

Over the years, Volvo has advanced solutions that have revolutionized the use of construction equipment. No other name speaks Safety louder than Volvo. Protecting operators, those around them and minimizing our environmental impact are traditional values that continue to shape our product design philosophy.

We’re on your side

We back the Volvo brand with the best people. Volvo is truly a global enterprise, one that is on standby to support customers quickly and efficiently – wherever they are.

We have a passion for performance.

A strong, dedicated, capable dealer network

Our dealers are strategically located throughout North America to provide the equipment you need and the parts and service support you demand for a productive and profitable operation.
Versatile performance

The new Volvo SD75B and SD115B soil compactors are packed with advanced technology. The drum is configured with ease while the engine controls itself. The compactors adapt to your application and jobsite to provide maximum versatility and performance.

Frequency and amplitude choices

Easily adjust the vibration frequency from the operator console to compensate for changing soil types and conditions. Two frequency settings are standard and for even greater versatility, five frequency option is available. High and low amplitudes can also be selected.

Adaptive power

Adaptive power tailors machine performance by adjusting engine and hydraulic systems to individual job site requirements, providing the exact amount of power needed for increased efficiency. It’s designed to run the machine at the optimal level needed for the job.

Application versatility

The machine can be set up in three different configurations and is available with smooth or padfoot drum. The compactor is quickly and easily converted from a smooth drum by clamping on a padfoot shell. The padfoot shell kit allows the machine to work in different applications and increases versatility.

Gradeability

The Volvo traction system provides excellent climbing and traction capabilities in difficult applications, such as steep inclines or slippery surfaces. The system prevents wheel or drum spin, improving gradeability, performance and productivity. For the most demanding applications, the High Traction variant is also available, delivering additional torque to easily climb extreme slopes.
Volvo’s advanced drum control system delivers multiple frequency, dual amplitude, and optimized centrifugal force – matching the drum’s performance to your application. The choice of high or low amplitude is easily selected, giving you the flexibility to adjust the drum’s dynamic force based on the job and material depth. The auto vibration feature also increases ease of operation and productivity.
Volvo’s premium Tier 4 Final engine delivers high torque at low rpm for superior performance and low fuel consumption. Designed to lower emissions and increase efficiency without compromising power.
The perfectly optimised Volvo Tier 4 Final engine delivers high torque at low rpm for superior performance and low fuel consumption. The compactor’s engine has been developed to offer greater fuel efficiency, increasing uptime and reducing costs.

**Power up, fuel down**

**Efficient cooling system**

The hydraulically-driven fan with variable speed draws power only when needed. Lower fan speeds reduce noise, resulting in greater operator comfort and a lower total cost of ownership.

**Passive regeneration**

The new passive regeneration provides continuous and simplified operation. Volvo’s passive regeneration cleans the filters automatically during normal operation without any input from the operator or effect on performance.

**ECO mode**

ECO mode is now standard and is always turned on by default. It adjusts the engine speed to match the operation mode and up to a 40% reduction in fuel consumption is achieved with ECO mode.

*Not applicable to SD75B*

**Eccentric design**

The eccentric design delivers more efficiency while using less power. Matching the required performance to suit your application, the eccentric is designed for faster ramp up speeds at lower pressure for increased fuel efficiency.
Packed with intelligence

**ECO mode**
ECO mode can be selected by the operator. This feature adjusts the engine speed to match the operation mode.

**COMPACT ASSIST**
The Compact Assist option improves compaction efficiency by preventing unnecessary passes and identifying areas that might not have achieved ideal compaction.

**HIGH QUALITY COMPONENTS**
The compactor features the highest quality components, clever routing and clean design.

**Heavy-duty**
The heavy-duty drum, center joint and front frame components are designed and manufactured with durability in mind.

**Operator Environment**
The ROPS/FOPS certified cab or open operator’s area provides a safe and comfortable working environment with all around visibility.

**DRUM PERFORMANCE**
Volvo’s advanced drum control system delivers multiple frequencies, dual amplitude, and optimized centrifugal force.
The perfectly optimised Volvo Tier 4F engine delivers high torque at low rpm for superior performance and low fuel consumption.

Passive regeneration
Passive regeneration functions automatically during operation without input from the operator or effect on machine performance.

Service Access
The electric engine hood lifts up giving extensive ground level access to the engine compartment.

ActiveCare Direct
Maximize machine uptime and reduce repair costs with ActiveCare Direct, with 24-7/365 machine monitoring as well as customer reports.

Gradeability
The Volvo traction system provides excellent climbing and traction capabilities in difficult applications. For the most demanding applications, the High Traction variant is also available.

Impact meter
Integrated into the display, the impact meter ensures you travel at the right speed for target compaction.
Control in comfort

Step up to the Volvo designed cab and experience industry-leading low noise levels, ultimate comfort and a productive working environment. Safe, spacious and with improved all-around visibility, operators will work efficiently with less fatigue in a Volvo compactor.

Operator Environment

The ROPS/FOPS certified cab provides a safe and comfortable working environment with an efficient heating and air conditioning system and all-around visibility. With floor to ceiling cab glass, the operator has an excellent forward drum view as well as superior front and rear visibility.

Operator display

The new high-tech color operator display presents operational information and key diagnostics, reducing the need for regular physical checks. Easy to see in direct sunlight, further functions include service interval information and machine operating conditions. The control keypad is conveniently located on the operator's side console and controls are grouped together for comfort and efficiency.

HVAC system

The cab is equipped with industry-leading climate control to ensure a comfortable environment inside the cab, whether heating or air conditioning is required. High air intake and positive cabin pressure helps to reduce dust from entering the cab.

Impact meter and compaction gauge

Integrated into the display, the impact meter provides the operator with the impacts per meter, helping ensure they travel at the optimal speed for both target compaction and a uniform, smooth finish. The compaction gauge displays the CMV, an estimated value of soil stiffness, which helps to indicate when compaction has been achieved.
Compact Assist for soil can display both pass mapping or CMV (compaction measurement value), an estimated value for soil stiffness. This option can improve compaction efficiency by preventing unnecessary passes and identifying areas that might not have achieved ideal compaction.
The compactor features the highest quality components, clever routing and clean design. The engine, hydraulics and electronic components work in harmony to deliver superior performance and increase machine life.
Robust and reliable

Volvo Construction Equipment produces the most robust and durable compactors on the market. The SD75B and SD115B machines provide easy service access for increased uptime and quick maintenance.

Service Access
The cab tilt is standard, providing access to all hydraulic components. For class-leading access, the electric engine hood lifts up giving extensive ground level access to the engine compartment. Maintenance and inspections can be conducted more efficiently with minimal downtime – increasing overall productivity and reliability.

ActiveCare Direct
Maximize machine uptime and reduce repair costs with ActiveCare Direct. ActiveCare Direct is a predictive and preventive maintenance service that provides 24-7/365 machine monitoring as well as customer reports.

Sealed electronics
All components and electronics have been moved into the cab and mounted on the rear wall, protecting them from the elements. Fuses are accessible behind the fuse panel for improved accessibility.

Heavy-duty
The heavy-duty drum, centre joint and front frame components are designed and manufactured with durability in mind. The thick steel drum shell is engineered for longevity and performance. Frames are robotically welded and built from high quality steel with precise and consistent welds guaranteeing a strong structure.
# Specifications

## Model Specifications

<table>
<thead>
<tr>
<th>Model</th>
<th>SD75B</th>
<th>SD115B</th>
</tr>
</thead>
<tbody>
<tr>
<td>Drum type</td>
<td>Smooth</td>
<td>Padfoot</td>
</tr>
<tr>
<td>Machine Weights (inc. ROPS &amp; inside scraper)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Operating Weight (CECE)</td>
<td>kg</td>
<td>lb</td>
</tr>
<tr>
<td>Static Weight @ Drum</td>
<td>kg</td>
<td>lb</td>
</tr>
<tr>
<td>Static Weight @ Tyres</td>
<td>kg</td>
<td>lb</td>
</tr>
<tr>
<td>Shipping Weight</td>
<td>kg</td>
<td>lb</td>
</tr>
<tr>
<td>Drum</td>
<td>Width mm</td>
<td>in</td>
</tr>
<tr>
<td></td>
<td>1,676</td>
<td>66</td>
</tr>
<tr>
<td></td>
<td>1,676</td>
<td>66</td>
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<tr>
<td>Vibration</td>
<td>Frequency Hz</td>
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<tr>
<td></td>
<td>30.8/33.8</td>
<td>1,850/2,025</td>
</tr>
<tr>
<td></td>
<td>30.8/33.8</td>
<td>1,850/2,025</td>
</tr>
<tr>
<td>Propulsion</td>
<td>Type</td>
<td>Hydrostatic</td>
</tr>
<tr>
<td>Travel Speed</td>
<td>High km/h</td>
<td>mph</td>
</tr>
<tr>
<td>Engine</td>
<td>Make / Model</td>
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<tr>
<td>Rated Power @ 2 200 rpm</td>
<td>kW</td>
<td>hp</td>
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<tr>
<td>Electrical System</td>
<td>Voltage (Negative ground)</td>
<td>Volt</td>
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<tr>
<td></td>
<td>Alternator Ah</td>
<td>100</td>
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<tr>
<td></td>
<td>Batteries CCA</td>
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<tr>
<td>Brakes</td>
<td>Service</td>
<td>Hydrostatic</td>
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<tr>
<td></td>
<td>Parking / Secondary</td>
<td>Spring-applied, hydraulically released on drum &amp; axle</td>
</tr>
<tr>
<td>Miscellaneous</td>
<td>Articulation Angle °</td>
<td>+/− 38</td>
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<tr>
<td></td>
<td>Oscillation Angle °</td>
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<tr>
<td></td>
<td>Inside turning radius mm</td>
<td>3,249</td>
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<tr>
<td></td>
<td>DEF Tank Capacity l</td>
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<tr>
<td></td>
<td>Fuel Capacity l</td>
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<tr>
<td></td>
<td>Hydraulic Oil Capacity l</td>
<td>60</td>
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<tr>
<td>Guaranteed Sound Level</td>
<td>Operator’s Ear, acc. to ISO 11203:2009</td>
<td>LpA dBA</td>
</tr>
<tr>
<td></td>
<td>External, acc. to Directive 2000/14/EC</td>
<td>LWA dBA</td>
</tr>
</tbody>
</table>

## Gradeability

<table>
<thead>
<tr>
<th>Model</th>
<th>SD75B</th>
<th>SD115B</th>
</tr>
</thead>
<tbody>
<tr>
<td>Drum type</td>
<td>Smooth</td>
<td>Padfoot</td>
</tr>
<tr>
<td>No traction enhancement</td>
<td>Moderate</td>
<td></td>
</tr>
<tr>
<td>With flow divider option</td>
<td>High</td>
<td></td>
</tr>
<tr>
<td>With High Traction variant (includes flow divider and high torque axle options)</td>
<td>-</td>
<td>Extreme</td>
</tr>
</tbody>
</table>

Moderate applications include highway construction, finish grades, and slopes up to 30%.
High applications include trenching, infrastructure projects, and slopes ranging from 25% to 40%.
Extreme applications include thick lifts of loose material, use of leveling blades, and slopes over 30% such as landfills.
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.