

V O L V O

Improved productivity and safety

Volvo Smart Suspension



Volvo Smart Suspension makes a driver's job easier at the dock and on the road. Smart Suspension now comes in two available options: our base-level electronic suspension and the new enhanced electronic suspension.

Base electronic suspension

This Smart Suspension option can be added to provide a suspension pressure display for the driver. Base electronic suspension evenly distributes the load across the rear axles automatically.

Enhanced electronic suspension

Our enhanced electronic suspension option will provide loading information to the driver along with overload warnings. Dash controls can enable traction control by more heavily loading a single driven axle. In addition, with our Global Rear Air Suspension, there is the option of three ride-height levels to optimize fuel efficiency and ride.

Driver Information Display (DID)

The load sensor can be viewed in the DID, providing easy-to-understand load distribution information with clear symbols for axle weight, load weight, and overall loaded weight. The DID also provides guided instructions for weight calibration.

Benefits

- Improved steering and ride stability under lightly loaded conditions
- Improved trailer height adjustment when loading
- Reduced risk of running overweight for axles or loads
- Improved traction support in poor weather conditions
- Consistent loading per axle group

Volvo Trucks. Driving Progress

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Volvo Smart Suspension helps drivers hook or drop trailers quickly and safely, by making it easier to achieve the right suspension height for each trailer. The system improves handling with its intelligent load distribution, supporting the driver with improved traction. It also provides axle load indications and can notify the driver of axle load limitations.

At the dock

Trailer heights can vary greatly, which can pose problems at unfamiliar loading docks. Drivers use the rear suspension air dump switch to raise or lower the suspension, but this can still involve some guess work inside the cab. Both our base and enhanced electronic suspensions can be ordered with a wired suspension level remote for use while standing at the back of the truck. Drivers simply get out and adjust the truck suspension height every time with the remote. The system's load indicator can provide preliminary readings on axle weight to help give drivers peace of mind when scales are not readily accessible.

On the road

Volvo Smart Suspension can help reduce the risk of running overweight.* It also improves vehicle safety and handling by constantly monitoring and adjusting weight distribution during operation. It is ideally suited for applications that operate as diminishing loads and/or empty backhauls, as well as support for all 6x4 applications. By continuously adjusting downforce on the drive axle, the system provides maximum traction and fuel efficiency even as the vehicle's cargo weight and center of gravity shift with changing loads.

**All load sensor readings should be assumed approximate. Readings are not meant to replace official scale measurement of loads.*

Volvo Smart Suspension features:

- Fully integrated automated system for efficient load distribution of the drive axles as the payload changes
- Driver selection of traction modes for proactive and productive operations
- Manual operation of the suspension ride height for productive trailer hook-up/drop as well as loading/unloading of payload
- Safe mode to support the driver in case of system fault detection in the suspension
- Option for enhanced electronic suspension with overload warnings

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Some vehicle options and services may not be available at time of introduction.

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