



Volvo Trucks. Driving Progress

VOLVO DYNAMIC STEERING

PRODUCT GUIDE



Smooth Sailing



Volvo Dynamic Steering improves safety and comfort

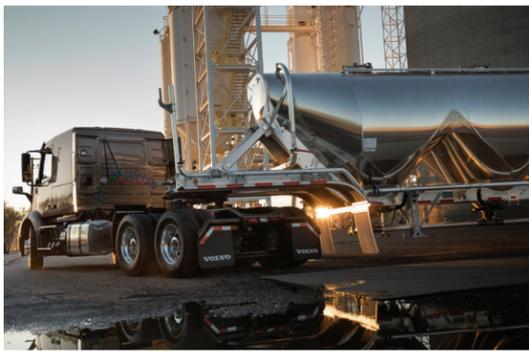
The revolutionary Dynamic Steering (VDS) system is now available on select North American Volvo models. Dynamic Steering offers a safer, more comfortable experience for the driver. It adds torque to reduce steering strain at low speed, both in forward and reverse. VDS also makes adjustments to improve stability at road speeds when encountering crosswinds, highway crowning, soft shoulders, or emergency situations like tire failure.



The system features a powerful electric motor mounted above the hydraulic steering gear to provide additional torque when necessary. It receives input 2,000 times per second from sensors throughout the truck monitoring yaw rate, steering angle, wheel speed and the driver's own actions. Optimal steering input is constantly calculated based on the conditions.



Fewer aches and pains
The VDS system dampens vibrations from rough roads and virtually eliminates the steering corrections needed in crosswinds. It keeps the driver on a straight course through small, precise directional adjustments. Over a full day's drive this means significantly less strain on the driver's arms, shoulders and neck.



Low speed maneuverability
Dynamic Steering provides two big advantages when turning at low speeds and reversing in tight spaces. Additional steering torque automatically feeds into the system, allowing the driver to maneuver with a light touch. The steering wheel will return to center when released, saving driving effort and bringing the vehicle into a straight line quickly and easily.



Blowout assistance
In the event of tire blowout, the vehicle will naturally pull to the side of the deflation. Dynamic Steering makes almost instantaneous adjustments to remove up to 85% (9 lb-ft.) of the torque a driver would normally feel. This can give the driver precious time to react and bring the vehicle to a safe stop without fighting the wheel.

Available Models featuring Dynamic Steering



VHD		VNR		VNL	
Model Name:	Cab Style:	Model Name:	Cab Style:	Model Name:	Cab Style:
VHD 300 axle back	Daycab	VNR 300	Daycab	VNL 300	Daycab
VHD 400 axle back	Flat-roof sleeper	VNR 400	Flat-roof sleeper	VNL 400	Flat-roof sleeper
		VNR 640	Mid-roof sleeper	VNL 740	Mid-roof sleeper
		VNR 660	High-roof sleeper	VNL 760	High-roof sleeper
				VNL 860	High-roof sleeper

Dynamic Steering at a Glance

FEATURE	DESCRIPTION
Low-speed Assistance	Volvo Dynamic Steering (VDS) adds torque to the steering gear at low speeds. This reduces the steering force required from the driver in low speed turns.
Improved Stability	VDS is a self-learning system, sensing road and driver input 2000 times per second. It continuously makes minor course adjustments for easier driving in situations like heavy crosswinds.
Return-to-Center	In tight turns the steering wheel automatically returns to center, both in forward and reverse, reducing driver strain and fatigue.
Vibration Dampening	Dynamic Steering suppresses the vast majority of vibrations that come from rough roads, improving handling and vehicle stability.
Blowout Support	VDS can compensate during tire failure and other situations where the vehicle is pulling, making it easier to control the truck and come to a safe stop if needed.

VOLVO

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Some vehicles shown with optional equipment.

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