VOLVO

Designed to change everything

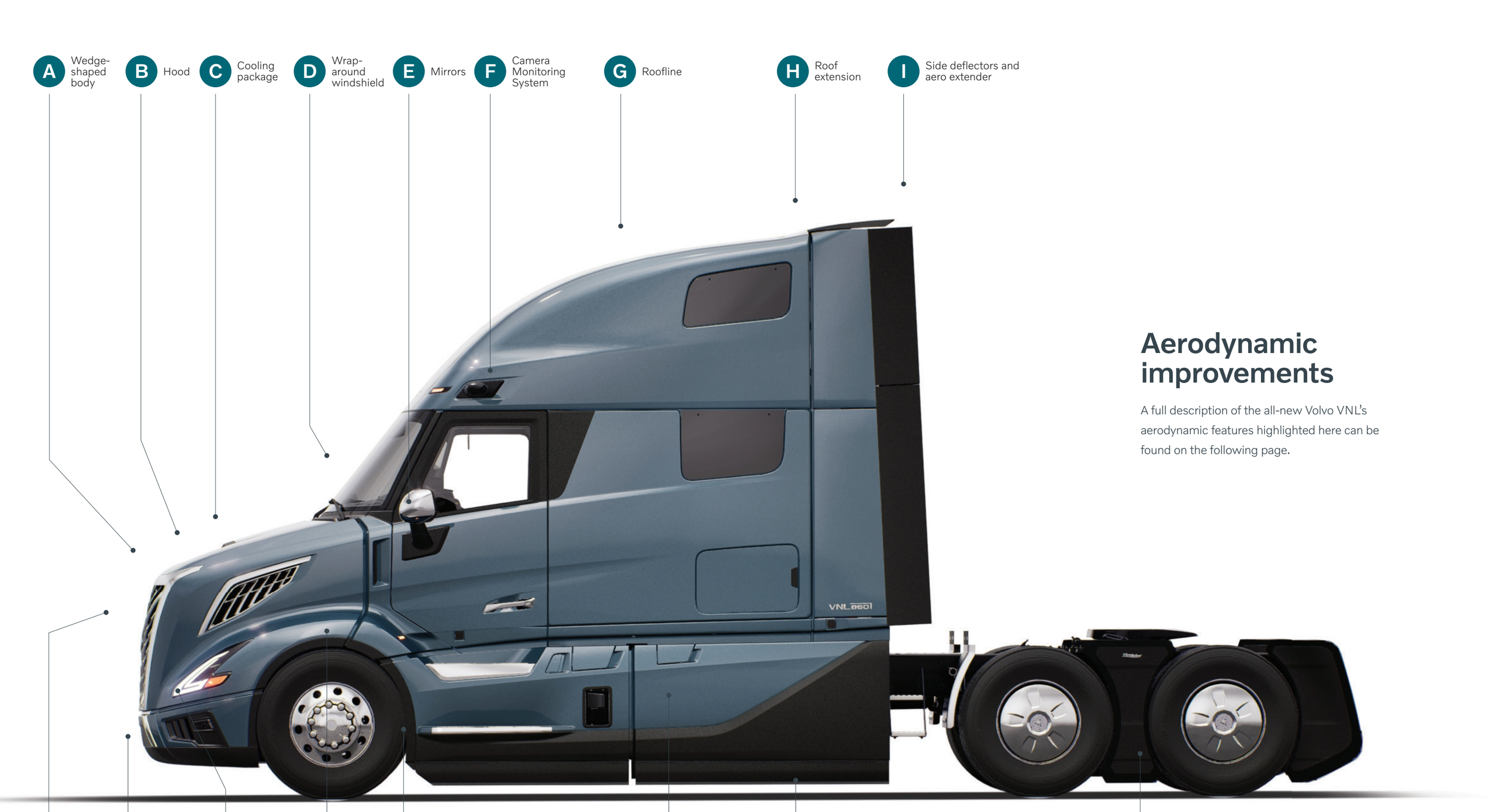
VNL AERODYNAMIC FEATURES



Volvo Trucks. Driving Progress.

This is no evolution, it’s a revolution

The all-new VNL is the most fuel-efficient vehicle Volvo has ever created for North America. Refined aerodynamic design is the primary reason this VNL offers up to 10% improvement in overall fuel efficiency as compared to our previous models. Sleek style and smooth lines help it slip through the wind, saving you on fuel every mile.



Aerodynamic improvements

A full description of the all-new Volvo VNL's aerodynamic features highlighted here can be found on the following page.

Aerodynamic improvement details

A Wedge-shaped body	The VNL's body spreads out from the narrow nose to the A-pillar of the frame, which is slightly inset. The cab then widens to the B-pillar. This unique wedge form helps air travel effortlessly along the body of the vehicle.
B Hood	Curvature at the front of the hood has been increased. The hood shape reduces turbulence as air begins to move over the vehicle and eventually back to the trailer.
C Cooling package	The cooling package has been designed to efficiently work with the more aerodynamic hood. The hood cowl is now virtually shrink-wrapped around the engine. The recirculation shield forces air through the radiator, not around it, for superior cooling.
D Wrap-around windshield	The windshield is raked and curved. At the A-pillars, the glass is bonded directly to the cab's steel body and capped at the edge for a seamless transition to the door.
E Mirrors	The door and hood mirrors* feature an all-new shape and reduced surface area. The door mirrors are designed with a single arm to decrease wind resistance and airflow disruption around the A-pillar and door surfaces.
F Camera Monitoring System	The soon-to-be-available Camera Monitoring System (CMS) replaces traditional door mirrors. The CMS features rear view monitors inside the cab, mounted to the A-pillar. By removing the traditional hood and large door mirrors, the CMS offers improved fuel efficiency.
G Roofline	The angular roof features an optimized centerline. The new design eliminates an exterior sun visor, while clearance lamps are now flush-mounted to optimize air flow over the cab.
H Roof extension	The angled roofline is further optimized by the "ski-jump" style roof extender that helps air stay attached as it travels over the cab and on to the top of the trailer.

**Hood mirrors are not used on VNL's featuring the Camera Monitoring System.*

I Side deflectors and aero extender	The cab side air deflectors and aero extender are designed to guide airflow to the trailer. The upper and lower deflectors are affixed to the cab. The durable and flexible aero extender is longer than ever. The improved extender can also fold out for better access to the back of cab.
J Grille	The grille complements the hood design to optimize cooling while reducing surface area. It is specifically sized to the radiator. The intake duct sits lower to improve airflow to and around the engine.
K Bumper and spoiler	The aerodynamic bumper and spoiler has a lower profile and split line with no central opening. This lessens turbulence and resistance to improve fuel efficiency without compromising stability.
L Headlamps	The dramatic, double-V headlamps are integrated with the bumper and hood for a seamless transition into the fender. The headlamps are also positioned lower on the vehicle to further reduce drag.
M Fender	The front fender profile has been reduced for a smoother transition of air from the hood. Airflow can follow a continuous path off the fender to the side of the cab and trailer.
N Front wheel closeouts	The front wheel closeouts reduce the gap between the fender and the wheel well. These closeouts guide more air away from the wheel opening and reduce turbulence under the hood.
O Chassis fairings	Chassis fairings aid aerodynamic performance by maintaining the cab's low profile. Re-designed step indentations and fuel/DEF door covers let air travel down the side of the cab.
P Ground effects	The VNL's chassis fairings now feature extended ground effects that hug the road and allow fewer disturbances as air passes down the cab.
Q FlowBelow™	Whether you choose a single or tandem axle configuration, FlowBelow rear fairings and aerodynamic wheel covers can reduce turbulence around the rear axles. FlowBelow and FlowBelow Deluxe are both available for factory installation on the VNL.

©2024 Volvo Group North America, LLC PV835-1210 01/2024

VOLVO

Some vehicle options and services may not be available at time of introduction.
Some vehicles shown with optional equipment. All specs current at time of publication release.
Performance data based on engineering calculations and real-world data.

www.volvotrucks.us | www.volvotrucks.ca