



Volvo Trucks. Driving Progress

VOLVO VAH SERIES

MAXIMIZE EVERY LOAD



THE VOLVO VAH

Haul in more profit.

*Delivering vehicles is a tough job. Deadlines are tight and shippers can be fickle.
The right truck can make the difference.*

Auto transport can be tough on equipment and drivers. So, we began the Volvo VAH with many of the same heavy-duty features found in our off-road vocational vehicles. Everywhere you look on this vehicle you'll find durable construction and improvements that help you deliver your load with greater safety, efficiency, and comfort.

Next, we packed the VAH with innovative engineering solutions like Volvo Active Driver Assist, Remote Start, Volvo's I-Shift automated manual transmission, and new LED lighting. It also features our latest interior, improving both ergonomics and cab noise. The clean top-of-frame is maintained to expedite body mounting and increase payload.

Profits are maximized by employing a unique configuration reducing the VAH's height, for ultimate loading flexibility. Deep-drop front axles, low-height Volvo Air Ride rear suspensions, and reduced-height cab options all create a lower overall roof height, offering the flexibility to position a car, pickup, or minivan over the cab. Choose your cab configuration, then select an available roof height to maximize loads. Through Fontaine Modifications, minimum roof height for the daycab is 94.5 inches, while the minimum for VAH sleepers is 97.5 inches.

Put it all together and the VAH is the clear-cut choice for auto transporters looking for a premium ride offering premium profits.





CAB MODELS

Keep a low profile.

With three cabs and a variety of roof heights, there's a VAH that is just right for you.



VAH 300
The VAH 300 daycab configuration offers a tight turning radius for easier maneuvering in urban areas or on crowded dealer lots. Loads of up to 11 vehicles are possible. The VAH 300 features a 113.6-inch BBC and is available with a 94.5- or 97.5-inch unladen roof height (Fontaine models 94 or 97).



VAH 400
When operations extend out for regional deliveries, the VAH 400 offers a 42-inch sleeper for a comfortable overnight rest. The multi-role performer delivers maximum payload, agility and driver amenities. The VAH 400 offers a 145.6-inch BBC and can be ordered with a 97.5- or 102.5-inch unladen roof height (Fontaine models 97 or 102).



VAH 600
Long-haul routes and short deadlines can require multiple nights on the road. The VAH 600 offers the auto transport industry's premium sleeper. The 61-inch sleeper berth includes a 36-inch wide mattress, ample storage space, and can include a refrigerator. The VAH 600 has a 164.1-inch BBC and is available with a 97.5- or 102.5-inch unladen roof height (Fontaine models 97 or 102).

INTERIOR IMPROVEMENTS

Not just a workspace, a space that works.

The dashboard on the VAH is optimized, displaying critical information at a glance and grouping frequently used controls in easy reach.

An optional, five-inch driver color display, with improved graphics, works with controls mounted on the steering wheel to provide key operating parameters, as well as access to system settings and configurable diagnostic aids.

A dash-top tray with multiple connections provides a safe, convenient home for a driver’s many devices, which can also be linked to an optional in-dash infotainment system.

Always in view, the instrument cluster’s clean, symmetrical layout and diffused, light-green backlighting make it easy to read, reducing eyestrain and fatigue.



Configurable LCD screen
At the heart of the new and improved instrument cluster is a color LCD display. A full five inches wide, it can be configured to provide trip information, performance data, and a wide range of vehicle diagnostics.



System control, close at hand
To keep the driver’s hands on the wheel, multiple systems can be controlled through steering wheel-mounted switches. The touch-friendly switch layout enables cruise control, entertainment, and other settings to be changed without diverting attention from the road. The steering wheel and controls are always close at hand, thanks to a new three-motion tilt/telescope Position Perfect™ wheel.





VOLVO D11 AND D13

Never compromise.

No matter the road or the load, we've created two outstanding engine options that deliver all the power and efficiency you need for auto transport.

Volvo D11

325-425 hp, 1,250-1,550 lb-ft.

Volvo's family of engines builds on a foundation of proven, mature architecture that leverages innovative hardware to maximize efficiency. The VAH comes standard with the Volvo D11, which is designed with the highest power density ratio we offer. It provides comparable hp and torque to bigger block engines, while weighing 345 pounds less than the Volvo D13. The D11's ratings begin at 325 hp and end at an impressive 425 hp, complete with 1,550 lb-ft. of torque.

Volvo D13

405-500 hp, 1,450-1,850 lb-ft.

When greater horsepower and torque are required based on your delivery routes, the Volvo D13 is ready to answer the call. Several power ratings are available, topping out at 500 hp and 1,850 lb-ft. of torque. The D13 gives you everything you need, even on steep grades. Straight torque and multi-torque offerings are available when selecting the D13.

Dynamic duo

The D11 and D13 are designed to pair with our innovative I-Shift automated manual transmission. Volvo engines paired with an I-Shift keep fuel costs down, slow driveline wear, reduce noise, extend powertrain life, and lower maintenance costs.

Power take-off

The VAH has you covered when it comes to PTO configurations. Drive connections are available in two positions (rear engine PTO and transmission-mounted PTO) for gear pumps, piston pumps, or direct drive shaft connections. PTO's on the Volvo powertrain provide superior reliability because the pumps are direct coupled during factory installation.

Remote Start

The optional Remote Start feature allows drivers to start or stop the engine from outside the cab while the PTO is engaged. One or two switches may be mounted, with optional positions near the head rack valve bank and on the trailer near the valve bank. It also includes an in-cab switch on the left side of the dash, which is accessible from the ground. Remote Start provides greater productivity and improved fuel savings.

Powerful and precise engine braking

The intelligent Volvo Engine Brake (I-VEB) is an enhanced system that gives drivers precise control over engine braking and saves the truck's service brakes for when they're needed most. It can provide phenomenal retarding horsepower even at low engine rpm and vehicle speeds, allowing drivers to walk the vehicle downhill without a foot on the brake pedal. The I-VEB will extend brake life and reduce maintenance costs for your VAH.

VOLVO I-SHIFT

An automated manual transmission with digital intelligence.

Volvo has made the industry's most advanced and reliable automated manual transmission even better.

The latest edition of the Volvo I-Shift transmission includes upgraded hardware and software, greater durability, and a countershaft brake for improved performance and smoother, faster shifting. The electronic control unit can handle any load and any road, shifting perfectly every time. We've also improved clutch durability and torsional dampening in both our D11 and D13 models.

Whether your route includes rolling hills or steep mountain terrain, Volvo's I-See® predictive cruise employs self-learning knowledge of road topography to work with I-Shift, helping your drivers optimize the truck's speed and gear shifting.



Makes every driver more fuel efficient
Our latest I-Shift makes drivers more productive, using intelligent electronics to continuously monitor grade, speed, weight, and engine load, shifting when necessary or holding a gear—whichever saves more fuel. So, regardless of experience or training, I-Shift can help every driver become more fuel efficient.



Eases your mind and your left foot
Once you drive an I-Shift, you'll never want to deal with a clutch pedal again. I-Shift lets you concentrate on the task at hand—delivering vehicles—not on what gear you're in. It's easy to use and always ready with the right gear, so missed shifts and sore knees are a thing of the past. With I-Shift, just sit back, get comfortable, and concentrate on your driving.



Brains, brawn, and value
With a D11 or D13 engine, Volvo's torque rating for I-Shift goes up to 1,900 lb-ft., so it's compatible with any Volvo engine you choose for the VAH. I-Shift can also increase your truck's resale value. If your Volvo truck was purchased with a lower engine power rating, a simple software flash can uprate it to the highest power rating for its displacement—without having to replace the transmission.



Design changes save fuel and time
The Volvo I-Shift's transmission cooler optimizes fluid temperature in cold and warm climates, improving fuel efficiency. Connections in the transmission are also upgraded for faster maintenance during service stops.





INTERIOR IMPROVEMENTS

Because every driver is one of a kind.

The VAH interior is filled with innovations inspired by conversations we had with thousands of drivers.

No two drivers are exactly alike, so we set out to design a steering solution that lets drivers set the ideal height and angle, no matter who’s behind the wheel. The result is Volvo’s new Position Perfect™ steering wheel. With a three-way neck tilt, drivers have an almost endless array of choices for positioning the wheel exactly where they prefer it.



Critical data, clearly displayed
A symmetrical instrument cluster combines well-organized traditional gauge faces with a high-resolution, five-inch color LCD screen. The programmable LCD screen can be configured to display a wide range of vehicle data alerts and system settings.



Optional infotainment system
The new infotainment system is optional in every VAH. It features a seven-inch color touch screen and an integrated premium audio system. Volvo Trucks is the only Class 8 manufacturer to offer Apple CarPlay® as an installed option. TomTom truck gps may also be selected as an option when you spec your VAH.



Not just any cup holders
Our sturdy, removable cup holders fit into a modular rail system. Drivers can keep up to four drinks on the rail, positioned exactly where they want them. Beverages remain firmly secured and within easy reach.



SLEEPERS

To improve your sleep, we improved our sleeper.

Volvo VAH sleepers offer premium touches that give drivers a comfortable place to relax and recharge when your route requires overnight stops.

With a 36-inch wide bed, the 42-inch flat-roof VAH 400 sleeper provides ample room to rest for regional runs. The 61-inch, flat-roof VAH 600 provides additional room and amenities for even longer periods on the road. A thick layer of insulation keeps the cab comfortable and quiet whether you're down for an hour or for the night.



Don't get up
The sleeper control panel can be used to lock the doors, adjust bunk heating and cooling, or set audio levels. Need assistance? Just press the "panic" button to call attention to your vehicle.



Snacks and refreshments
The VAH 600's cabinets can be configured to include a refrigerator or a microwave, so a hot meal or a cold drink can be available any time. An optional refrigerated drawer under the passenger seat is also available.

ACTIVE AND PASSIVE SYSTEMS

Filled with safety innovations.

Since 1928, safety has been the guiding principle for everything we build. The VAH is packed with active safety technology to prevent accidents, starting with Volvo Active Driver Assist for improved collision avoidance. New LED headlamps and daytime running lights, with a de-icing option, improve visibility. The VAH is also filled with passive safety features like driver-side airbags, three-point safety belts, and an engine that drops away from the cab on impact.



Industry-leading. Just in case
Volvo is the only Class 8 manufacturer to make a driver's side airbag standard equipment in every truck. To further protect occupants, the engine and transmission drop down and away from the driver.



Fewer distractions
The Volvo I-Shift automated manual transmission takes away the physical and mental demands of changing gears. It can reduce driver fatigue and give the driver more time to scan surrounding traffic.



Three-point safety belt
Volvo developed the first three-point safety belt, then released the design for the benefit of society. In 1984, we became the first heavy-duty truck manufacturer to install them as a standard feature.



Volvo Active Driver Assist (VADA)
In the VAH, our collision-avoidance system integrates radar and automatic braking features. VADA monitors for hazards from highway speed down to 15 mph.

PRODUCTS AND SERVICES

We're with you every minute, every day.

Volvo Trucks' proven Uptime Services bundle connects your vehicles to you, your dealer, and the Volvo Uptime Center 24/7.

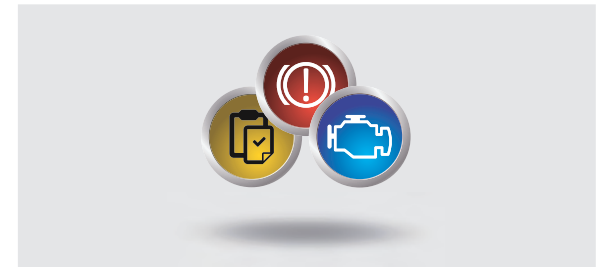
Standard in every Volvo-powered VAH, Remote Diagnostics can help avoid unexpected downtime with constant monitoring of your Volvo engine, I-Shift, and aftertreatment. It offers a range of unique benefits, including enhanced proactive diagnostics, detailed analysis of critical fault codes for repair planning, immediate communication if actions are required, and streamlined service procedures.



Volvo Uptime Center
Real people. Real solutions. Real fast. The Volvo Uptime Center offers around-the-clock assistance anywhere in the United States and Canada. Within minutes, your driver is connected to a member of Volvo Action Service, a team of highly trained uptime experts who can quickly manage service, schedule repairs, and tackle any other issue that happens on the road.



Ready to assist
With a dedicated team of professionals available around the clock at our world-class Uptime Center in Greensboro, NC, Volvo goes beyond diagnostic technology to deliver actionable solutions. It's a powerful service that reduces average diagnostic times by 70% and average repair times by 22%.



Premium Maintenance Plan
For best results, plan ahead. Preventive maintenance plans improve vehicle uptime, increase productivity, and provide peace of mind by making sure all required maintenance is done efficiently and done right. Choose from a full menu of services and get access to Genuine Volvo Parts, warranty adjustments, service programs, and performance updates at pre-planned maintenance intervals.



Remote Programming
Volvo's new Remote Programming feature means you'll no longer have to take your vehicle out of service to perform certain software and parameter updates like transmission performance mode, engine idle shutdown, and weight-based road speed limits. The driver receives notifications that update or parameter changes are available. The software download can then be done at their convenience, using the in-dash Driver Information Display.



DEALER NETWORK

Always where you need us most.

Our world-class dealer network means your trucks are never far from the quality care and maintenance you expect when you buy a Volvo truck.

Our Uptime Services are here to save you both time and money. With more than 400 dealers and thousands of service locations across North America, Volvo Trucks Uptime Services help you through every step of a service event and make sure your trucks stay where they belong—on the job.

Because the VAH has our most advanced telematics package, the dealership has complete access to the truck’s engine data, diagnostic codes, and the current status of crucial components. We can prepare to address issues before your vehicle arrives at the dealership or even help predict unplanned stops and offer solutions.

When maintenance work or repairs are needed, they’ll be done fast and accurately by highly trained Volvo specialists. Every Volvo dealer is backed by our parts-expediting team which locates the parts you need. It assures that your vehicle is back to work quickly.



Certified Uptime Dealers

Certified Uptime Dealers expedite critical repairs. With the truck’s remote diagnostic data already in hand, a technician can immediately diagnose the truck. If the repairs require less than four hours of service time, the truck is fast-tracked, so we can help you get back on the road within hours.



Choose your Volvo VAH.



VAH 300



VAH 400



VAH 600

Description	Daycab designed to provide outstanding performance for urban deliveries.	Flat-roof sleeper designed for regional hauls requiring overnight rest to maintain hours of service compliance.	Spacious flat-roof sleeper designed for longer hauls requiring multiple overnight stays.
Cab Type	Daycab	42" Sleeper	61" Sleeper
Unladen Cab Height Options	94.5" or 97.5"	97.5" or 102.5"	97.5" or 102.5"
Interior Height	50" or 52" depending on roof selection	52" or 57" depending on roof selection	52" or 57" depending on roof selection
Interior Width	83.5" door to door	83.5" door to door with 75" x 36" mattress	
BBC	113.6"	145.6"	164.1"
Drive Axle Configuration	6x4 tandem		

For more details and availability of other custom options contact your local Volvo dealer.



Volvo D11



Volvo D13

Engine:		
HP / Torque Ratings	325-425 hp / 1,250-1,550 lb-ft.	405-500 hp / 1,450-1,850 lb-ft.
Base Engine Configuration	4 cycle / Inline Six	
Emissions	SCR Selective Catalytic Reduction	
Aspiration	Sliding Nozzle Variable Geometry Turbocharger	
Cam / Valve Configuration	SOHC / 4 Valves per Cylinder	
Cylinder Head	One Piece Rigid Deck	
Injection System	Common-Rail	
Maximum Fuel Injection Pressure, psi (bar)	35,000 (2,400)	
Upgrade	Software Only, Throughout Range	
Displacement, cu. in. (L)	661 (10.8)	780 (12.8)
Compression Ratio	17:1	
Bore & Stroke, in. (mm)	4.84 x 5.98 (123 x 152)	5.16 x 6.22 (131 x 158)
Full Dress Dry Weight, lb. (kg)	2,259 (1,025)	2,605 (1,182)
Fuel and Lubrication:		
Fuel Specification	Ultra Low Sulfur Diesel, 15 ppm	
Fuel Filters	Primary plus Secondary	
Total Lube Oil Capacity, qts. (L)	38 (36)	42 (40)
Oil Filtration	Two Full Flow, One Bypass	Two Full Flow
Oil Drain Interval, Normal Service, miles (km)	60,000 (96,561)*	
Oil Specification	Volvo VDS-4.5, SAE 10W-30	
FLOCS Oil Drain Kit	Optional	
Ancillary Equipment:		
Air Compressor, CFM	Two Cylinder, 31.8	
Engine Brake	Volvo Engine Brake (I-VEB)	
Engine Brake Rating at 2,200 rpm	420 hp @ 2,200 rpm	500 hp @ 2,200 rpm
Engine Brake Rating at 1,500 rpm	266 hp @ 1,500 rpm	350 hp @ 1,500 rpm
PTO Port for Live Rear PTO Pump or Shaft	Optional	
Preheater, Electrical	Optional	

* Volvo-branded VDS4.5 oil and > 6 mpg.



Volvo I-Shift - Overdrive

Max Torque Capacity (lb-ft.)	1,900
Gear Ratio	15.04:1
Forward Gears	12
Reverse Gears	4
Dry Weight with Clutch and Oil Cooler (lbs.)	719
Max Highway Weight (lbs.)	110,000*
Transmission Housing Body	Aluminum
Fully Integrated Driver Display	✓
Shifter Position	Seat Mounted or Dash Mounted
Gear Selector Positions	Reverse, Neutral, Drive, Manual
Kick Down	✓
Grade Sensor	✓
Load Sensor	✓
Trailer Detection	✓
Monitored by Remote Diagnostics	✓
Remote Programming OTA	✓
Hill Start Assist	✓
Skip Shift	✓
Low Speed Operation	Idle Drive
Auto Neutral	✓
Intelligent Shifting	✓
Transmission Warranty — Normal Duty	5 yrs/750K miles
Clutch Warranty — Normal Duty	3 yrs/300K miles
Oil Drain Interval	5 yrs/500K miles
Oil Volume (quarts)	16.2
Enhanced Transmission PTO	✓
Driver Controlled Economy and Performance Modes	✓
Application Specific Software Packages	✓
Brake Mode	✓
Ability to Rock Free and Power Launch	✓
Driver Controlled Greatest Possible Downshift	✓
Engine Overspeed Protection	✓

* Application approval required for higher GCW.



	Fleet Trim Level	Express Trim Level	Premier Trim Level
Description	Our Fleet Trim Level is designed for maximum durability to withstand the wear associated with high-use applications. The Fleet Trim level is available in all VAH models.	Express Trim Level features a Heron cloth finish throughout the cab, with touches of Wren vinyl for a more refined interior. The Express Trim Level is available exclusively in VAH 300 and 400 models.	The Premier Trim Level offers luxurious options in every corner, including Wood Grain trim for the dash and cabinetry. The Premier Trim Level is available exclusively in VAH 300 and 600 models.
Headliner	Heron vinyl with dot matrix	Heron cloth	Heron cloth
Back Wall	Heron vinyl	Heron cloth	Longspur cloth with metallic accent
Door Insert	Wren molded plastic	Wren vinyl	Longspur vinyl
Instrument Panel Decorative Trim	Hex Grain	Hex Grain	Wood Grain
Cabinet Trim	Hex Grain	Hex Grain	Wood Grain
Floor Insert Options	Two	Two	Two



VOLVO

Volvo Trucks

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Some vehicles shown with optional equipment.

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