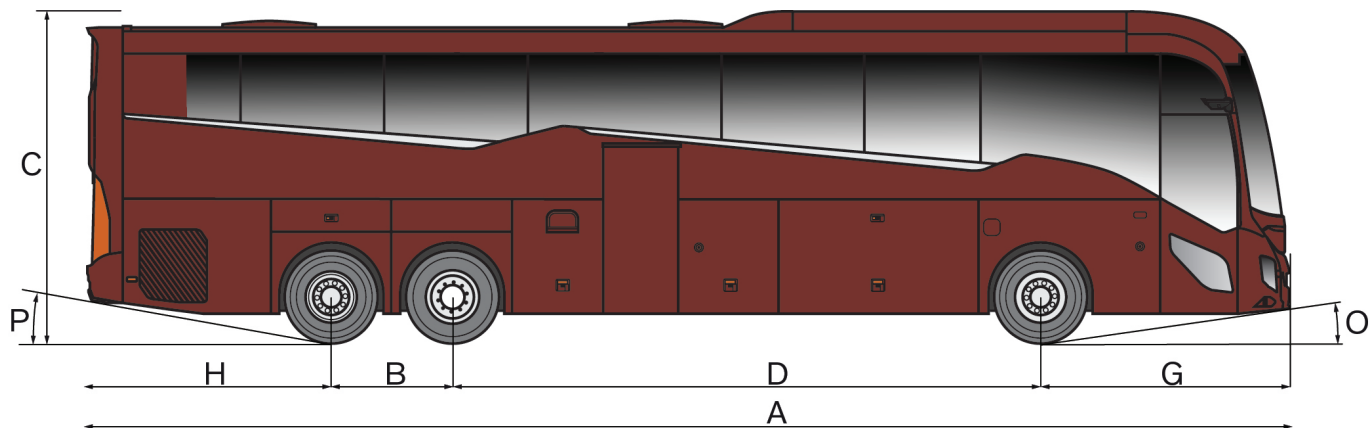


VOLVO 9900 13.9 M

Euro 6



Model	6 x 2, 13.9 m
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Overall dimensions		
A	Overall length (mm)	13995
	Overall width (mm)	2550
B	Bogie (mm)	1400
C	Overall height, with AC (mm)*	3850
D	Wheelbase (mm)	6860
G	Front overhang (mm)	2895
H	Rear overhang (mm)	2840
O	Approach angle (°)*	7.2
P	Departure angle (°)*	9.2
	Turning radius (outer front corner) (mm)	11995
	Turning radius (outer front wheel) (mm)	10125
*)	Overall height, approach and departure angles with tyres	315/80 R22.5

Weights	
Permitted front axle load (kg)	7500
Permitted drive axle load (kg)	11500
Bogie axle load (kg)	19000
Permitted tag axle load (kg)	7500
Permitted GVW (kg)	26500

Luggage capacity	
Luggage compartment volume, with toilet, without resting compartment (m ³)	13.1, 13.2
Drivers resting compartment (m ³)	2.0, 3.0

Passenger capacity	
Depending on seat layout and comfort level	52, 57

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Model	6 x 2, 13.9 m
Engine	
Emission standard	Euro 6
Engine system	SCR, common rail
Displacement (dm ³)	10.8
Cylinders/arrangement	6/in-line
Engine rating	
D13K420	
Output (hp) (±0–4%)	420
Output ISO 1585 (kW) (±0–4%)	316
Torque ISO 1585 (Nm); at engine speed 1000–1400 rpm	2100
Engine rating	
D13K460	
Output (hp) (±0–4%)	460
Output ISO 1585 (kW) (±0–4%)	340
Torque ISO 1585 (Nm); at engine speed 1000–1400 rpm	2300
Engine rating	
D13K500	
Output (hp) (±0–4%)	500
Output ISO 1585 (kW) (±0–4%)	370
Torque ISO 1585 (Nm); at engine speed 1000–1400 rpm	2500
Fuel tanks	
Diesel (L)	480, 600
AdBlue (L)	90
AdBlue tank side (RHS/LHS)	LHS/RHS
Transmission and axles	
Gearbox	Volvo I-Shift AT2612G
Front axle	Volvo IFS
Rear axle	Volvo RS1228C
Differential lock	Optional
Steering and suspension	
Steering wheel side	LHD / RHD*
Power steering	Hydraulic power steering
Kneeling	Optional
* RHD in selected variant combination.	

Exhaust system

- One box muffler design
- Diesel Oxidation Catalyst (DOC)
- Diesel Particulate Filter (DPF)
- Selective Catalytic Reduction (SCR)
- Ammonia Slip Catalyst (ASC)
- Automatic regeneration of DPF without driver involvement under normal conditions
- On Board Diagnostic (OBD) for emissions, according to step E of emission regulations
- Engine certified for usage with diesel according to EN 590 and hydrotreated vegetable oil (HVO according to standard EN 15940)
- Biodiesel available for D11K460 / D13K500

Cooling system

- Split configuration for heat exchangers with electrical fans to reach better fuel consumption, lower engine compartment temperature and better access for engine service.
- No coolant filter
- Higher allowed coolant temperature for better cooling performance and lower fuel consumption

Air and brake system

- Volvo disc brakes
- Electronic Braking System (EBS 5)
- Anti-lock Braking System (ABS)
- Acceleration Slip Regulation (ASR)
- Brake blending
- Hill Start Aid
- Brake temperature warning
- Poor brake performance warning
- Door brake
- Brake Assistant
- Lining wear sensing and analysis
- Automatic calibration after brake pad change
- Pneumatic system, easily filled from external circuit

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Fuel efficiency features

- Dynamic Chassis Lowering
- I-See
- VAL (Volvo Acceleration Limiter)
- ISO - FLOW

Tyres and rims

Steel or aluminium rims available

Rims	Tyres
8.25" x 22.5"	295/80 R22.5"
9.00" x 22.5"	315/80 R22.5"

Spare wheel Optional

Exterior and structure

- Roof made of sandwich structure
- Stainless steel in body structure and side paneling
- Stainless steel front and rear frame
- Front and rear wall in one piece composite material
- Front Underrun Protection (FUP)
- Reinforced Front Impact Protection (FIP)
- Anti-corrosion treatment of underbody with conservation and silencing agent
- Roof spoiler for AC
- Multilayer exterior paint finish
- Aerodynamic design of windscreen
- Electrical heating system and UV-protection in windscreen
- Engine protection bar
- Z shaped window line
- Side and rear window with dark tinted double glazing
- Driver window electrically operated, heated single glazing
- Front door with double glazing
- Mirrors electrically adjustable, heated and foldable
- Option: Camera Monitor System
- Brackets for ski-box or cycle carrier in the rear
- Central locking of luggage compartment
- Luggage hatches - parallel opening mechanism, option with automatic operation. Option hinged hatches.
- Two roof hatches electrically operated
- Roof plate in aluminium
- Luggage hatches in anodized aluminium
- Headlights Bi-Xenon
- Headlight cleaner

Doors and door system

- Outward swinging door
- Software safety system
- Lift and lock system for tight closure

Climate system

- Roof unit with cooling and heating
- Pipe convectors
- Defroster with AC
- Driver convector or blower
- Auxiliary diesel heater
- Separate climate zones for driver and passengers

AC unit option 1

Maximum cooling capacity: 31 kW
Heating capacity at Q80 38 kW

AC unit option 2

Maximum cooling capacity 37 kW
Heating capacity at Q80 38 kW

Convectors

Heating capacity at Q60 470 W/m
Heating capacity at Q100 780 W/m

Defroster

Heating capacity at Q80 16 kW
Cooling capacity max 5 kW
Airflow max at dP 0 730 m³/h
Available with/without AC

Auxiliary heater

Heating capacity 30 kW

Interior

- Several interior colour lines
- Curtains or sun blinds for side windows
- Removable carpets for all interior floor and luggage floor surfaces
- Theatre floor
- Sunken gangway
- Roof equipped service set
- Water toilet with 123-litre water tank
- Closed luggage racks
- Lockable storage boxes
- Storage box beside guide seat
- Refrigerator (54 litres) in dashboard, beside guide seat or at side of toilet housing
- Minikitchen
- Two options of coffee machine
- Safe box
- Waste bin (50 litres) at toilet housing
- Passenger display with clock and exterior temperature
- Interior LED lighting for driver and guide
- Individual reading lights for passengers (LED)
- Light in luggage room and engine room
- Blue LED night illumination along gangway
- Safety illumination for entrance steps
- Special emergency interior illumination system
- Fire detection system (R107.06)

Passenger seats

Volvo coach line, Volvo intercity line, or Volvo city line seats, featuring:

- Unique product design
- Superior ergonomics and comfort
- Low weight
- Available in wide range of specifications to meet the demands of individual customers
- Volvo Service and spare parts handling

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Driver's seat and station

- Steering wheel adjustment in height and tilt with two options
- Steering with buttons for infotainment system
- Steering wheel in leather, two colours, available in 450 or 500 mm
- Styling options for dashboard
- Fully dynamic cluster
- Tachograph
- Data logging
- Volvo Alcolock
- Knee Impact Protection (KIP)
- External temperature meter
- Engine controls in engine compartment to enable engine operation from the rear of vehicle
- ISRI driver's seat
- Lane Keeping Support (LKS)
- Volvo Dynamic Steering (VDS)
- Adaptive Cruise Control
- Driver Alert System (DAS)
- Rear view camera
- Rear parking sensors

Electrical system

- Volvo I-Start system for increased uptime and extended battery life
- Automatic shut off of main switch at low voltage level
- Load balanced alternators
- Regenerative charge control to increase fuel efficiency

Battery capacity

Start batteries 2 x 35 Ah
Consumer batteries 2 x 210 Ah

Alternators max output

3 x 150 A

Audiovisual system

- Volvo audio / video system
- Infotainment system with integrated features for driver and passenger (USB, HDMI, AUX, BT)
- Android based system
- Driver's monitor SID (Secondary Infotainment Display)
- Passenger HD monitors front and rear 21,5" (flip-down or fixed)
- Driver and guide microphones
- Subwoofer