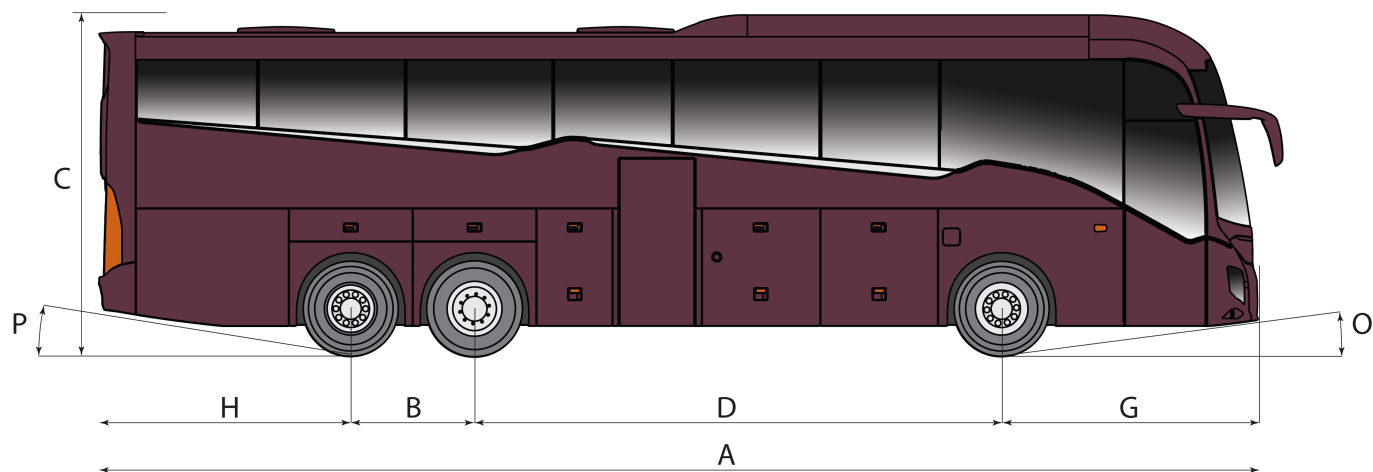




Volvo Buses. Driving quality of life

# VOLVO 9900 13.1 M

Euro 6



<b>Model</b>	<b>6 x 2, 13.1 m</b>
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<b>Overall dimensions</b>		
A	Overall length (mm)	13100
	Overall width (mm)	2550
B	Bogie (mm)	1400
	Overall height, without AC (mm)*	3824
C	Overall height, with AC (mm)*	3850
D	Wheelbase (mm)	5960
G	Front overhang (mm)	2895
H	Rear overhang (mm)	2840
O	Approach angle (°)*	7.2
P	Departure angle (°)*	9.4
	Turning radius (outer front corner) (mm)	10790
	Turning radius (outer front wheel) (mm)	8610
*)	Overall height, approach and departure angles with tyres	315/80 R22.5

<b>Weights</b>	
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

<b>Luggage capacity</b>	
Luggage compartment volume, with toilet, without resting compartment (m <sup>3</sup> )	10.5, 10.6
Drivers resting compartment (m <sup>3</sup> )	1.6, 2.0, 2.7
Volume of interior luggage racks (m <sup>3</sup> )	2.0

<b>Passenger capacity</b>	
Depending on seat layout and comfort level	48, 53

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<b>Engine</b>	<b>D11K</b>
Emission standard	Euro 6
Engine system	SCR, common rail
Displacement (dm <sup>3</sup> )	10.8
Cylinders/arrangement	6/in-line

<b>Engine rating</b>	<b>D11K430</b>
Output (hp) (±0–4%)	430
Output ISO 1585 (kW) (±0–4%)	316
Torque ISO 1585 (Nm); at engine speed 1000–1400 rpm	2050
<b>Engine rating</b>	<b>D11K460</b>
Output (hp) (±0–4%)	460
Output ISO 1585 (kW) (±0–4%)	339
Torque ISO 1585 (Nm); at engine speed 1000–1400 rpm	2200

<b>Fuel tanks</b>	
Diesel (L)	480, 600
AdBlue (L)	64
AdBlue tank side (RHS/LHS)	LHS

<b>Transmission and axles</b>	
Gearbox	Volvo I-Shift AT2412F
Front axle	Volvo IFS
Rear axle	Volvo RS1228C
Differential lock	Optional

<b>Steering and suspension</b>	
Steering wheel side	LHD
Power steering	Hydraulic power steering
Kneeling	Optional

## 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 D of emission regulations
- Engine certified for usage with hydrotreated vegetable oil (HVO, standard EN 15940)
- Biodiesel available for D11K460

## Cooling system

- Pivotal radiator to ease access for maintenance
- No coolant filter
- Higher allowed coolant temperature for better cooling performance and lower fuel consumption

## Air and brake system

- Collision Warning with Emergency Brake (CW-EB)
- Volvo disc brakes
- Electronic Stability Program (ESP)
- Electronic Braking System (EBS 5)
- Anti-lock Braking System (ABS)
- Acceleration Slip Regulation (ASR)
- Brake blending
- Dual retarder control
- Drag torque control
- 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
- Compressed air system, easily filled from external circuit

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## Fuel efficiency features

- Dynamic Chassis Lowering
- I-See

## 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 System (FUPS)
- Reinforced Front Impact Protection System (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
- 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
- Brackets for ski-box or cycle carrier in the rear
- Central locking of luggage compartment
- Luggage hatches - parallel opening mechanism
- 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 m<sup>3</sup>/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
- 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
- Steering wheel in leather, two colours, available in 450 or 500 mm
- Dashboard in two colours
- Instrument cluster with 6.5" display
- 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 170 Ah

### Alternators max output

2 x 150 A, 3 x 150 A

## Audiovisual system

- Bosch audio/video system
- Two DIN units with radio and DVD
- Driver's monitor
- Driver and guide microphones
- USB connection on dashboard
- 19" widescreen monitors, flip-down or fixed
- Subwoofer



Volvo Bus Corporation

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