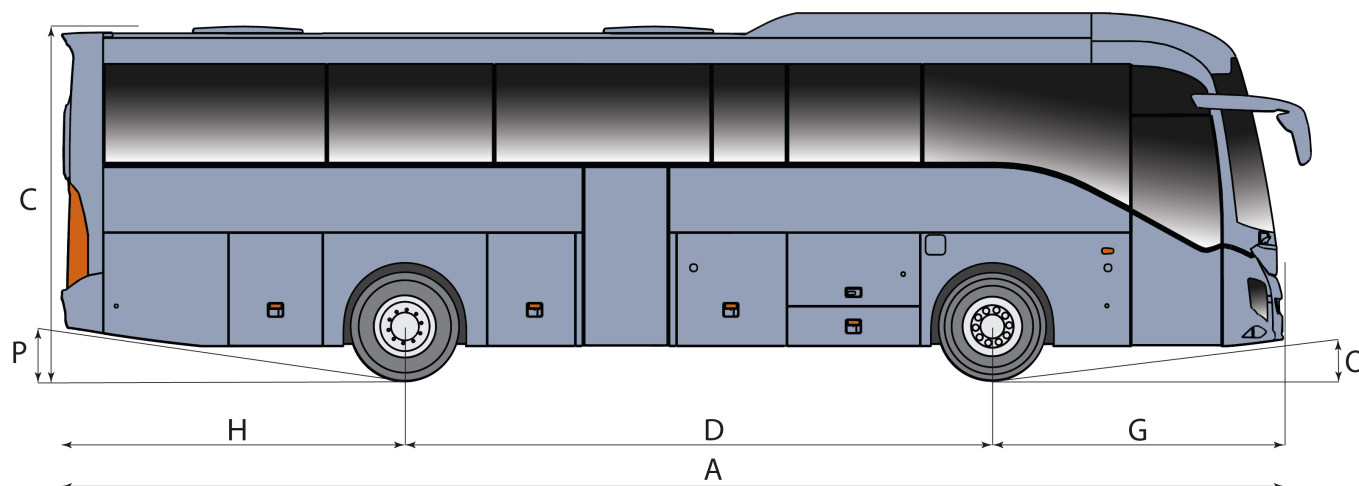




Volvo Buses. Driving quality of life

VOLVO 9700 12.4 M

Euro 6



Model	4 x 2, 12.4 m
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Overall dimensions		
A	Overall length (mm)	12400
	Overall width (mm)	2550
	Overall height, without AC (mm)*	3624
C	Overall height, with AC (mm)*	3650
D	Wheelbase (mm)	6080
G	Front overhang (mm)	2895
H	Rear overhang (mm)	3425
O	Approach angle (°)*	7.2
P	Departure angle (°)*	7.8
	Turning radius (outer front corner) (mm)	10940
	Turning radius (outer front wheel) (mm)	8760
*)	Overall height, approach and departure angles with tyres	315/80 R22.5

Weights	
Permitted front axle load (kg)	7500
Permitted drive axle load (kg)	12000
Permitted GVW (kg)	19500

Luggage capacity	
Luggage compartment volume including resting compartment (m³)	7.8
Drivers resting compartment (m³)	1.7
Volume of interior luggage racks (m³)	1.8

Passenger capacity	
Depending on seat layout and comfort level	49

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Model	4 x 2, 12.4 m
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Engine	D11K
Emission standard	Euro 6
Engine system	SCR, common rail
Displacement (dm ³)	10.8
Cylinders/arrangement	6/in-line

Engine rating	D11K380
Output (hp) (±0-4%)	380
Output ISO 1585 (kW) (±0-4%)	280
Torque ISO 1585 (Nm); at engine speed 1000-1400 rpm	1800 (950-1400 rpm)

Engine rating	D11K430
Output (hp) (±0-4%)	430
Output ISO 1585 (kW) (±0-4%)	316
Torque ISO 1585 (Nm); at engine speed 1000-1400 rpm	2050

Engine rating	D11K460
Output (hp) (±0-4%)	460
Output ISO 1585 (kW) (±0-4%)	339
Torque ISO 1585 (Nm); at engine speed 1000-1400 rpm	2200

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

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

Steering and suspension	
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

Fuel efficiency features

- Dynamic Chassis Lowering
- I-See

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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

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 frame with conservation and silencing agent
- Multilayer exterior paint finish
- Aerodynamic design of windscreen
- Electrical heating system and UV-protection in windscreen
- 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
- Luggage hatches - parallel opening mechanism
- Two roof hatches manually or electrically operated
- Roof plate in aluminium
- Luggage hatches in anodized aluminium
- Central locking of luggage compartment
- Halogen or Bi-Xenon headlights
- Headlight cleaner

Doors and door system

- First door outward or inward swinging
- Second door outward swinging
- 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

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Interior

- Several interior colour lines
- Curtains or sun blinds for side windows
- Removable carpets for all interior floor and luggage floor surfaces
- Sunken gangway
- Water toilet with 123-litre water tank
- 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

Driver's seat and station

- Steering wheel adjustment in height and tilt
- Steering wheel available in 450 or 500 mm
- Styling options for dashboard
- 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

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