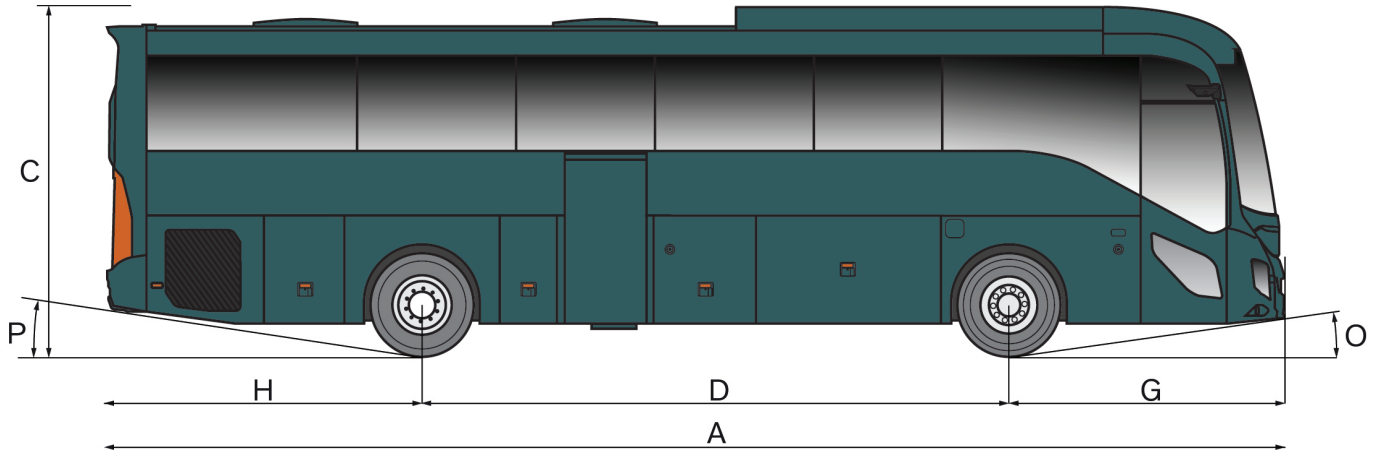


# VOLVO 9700 12.4 M

Euro 6



<b>Model</b>	<b>4 x 2, 12.4 m</b>
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Overall dimensions		
A	Overall length (mm)	12400
B	Overall width (mm)	2550
C	Overall height, with AC (mm)*	3650
D	Wheelbase (mm)	6170
E	Front overhang (mm)	2895
F	Rear overhang (mm)	3335
G	Approach angle (°)*	7.2
H	Departure angle (°)*	7.7
	Turning radius (outer front corner) (mm)	11148
	Turning radius (outer front wheel) (mm)	9275
*)	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)	7.9 / 8.8
Drivers resting compartment (m³)	1.9

Passenger capacity	
Depending on seat layout and comfort level	49 / 53

Engine	
Emission standard	Euro 6
Engine system	SCR, common rail
Displacement (dm³)	13
Cylinders/arrangement	6/in-line

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Model	4 x 2, 12.4 m
<b>Engine rating</b>	
Output (hp) ( $\pm 0-4\%$ )	D13K420 420
Output ISO 1585 (kW) ( $\pm 0-4\%$ )	310
Torque ISO 1585 (Nm); at engine speed 1000–1400 rpm	2100
<b>Engine rating</b>	
Output (hp) ( $\pm 0-4\%$ )	D13K460 460
Output ISO 1585 (kW) ( $\pm 0-4\%$ )	340
Torque ISO 1585 (Nm); at engine speed 1000–1400 rpm	2300
<b>Engine rating</b>	
Output (hp) ( $\pm 0-4\%$ )	D13K500 500
Output ISO 1585 (kW) ( $\pm 0-4\%$ )	370
Torque ISO 1585 (Nm); at engine speed 1000–1400 rpm	2500
<b>Fuel tanks</b>	
Diesel (L)	480 / 600
AdBlue (L)	90
AdBlue tank (RHS/LHS)	LHS
<b>Transmission and axles</b>	
Gearbox	Volvo I-Shift AT2612G
Front axle	Volvo IFS
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 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

## Fuel efficiency features

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

## 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

# VOLVO 9700 12.4 M

Euro 6

## 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 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
- Option: Camera Monitor System
- Brackets for ski-box or cycle carrier in the rear
- Luggage hatches - parallel opening mechanism, option with automatic operation. Option hinged hatches.
- 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

## Wheelchair lift

Available in side wall with dedicated door.

## 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
- 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

# VOLVO 9700 12.4 M

Euro 6

## Driver's seat and station

- Steering wheel adjustment in height and tilt with two options
- Steering wheel with buttons for infotainment system
- Steering wheel available in 450 or 500 mm
- Styling options for dashboard
- Fully dynamic instrument 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