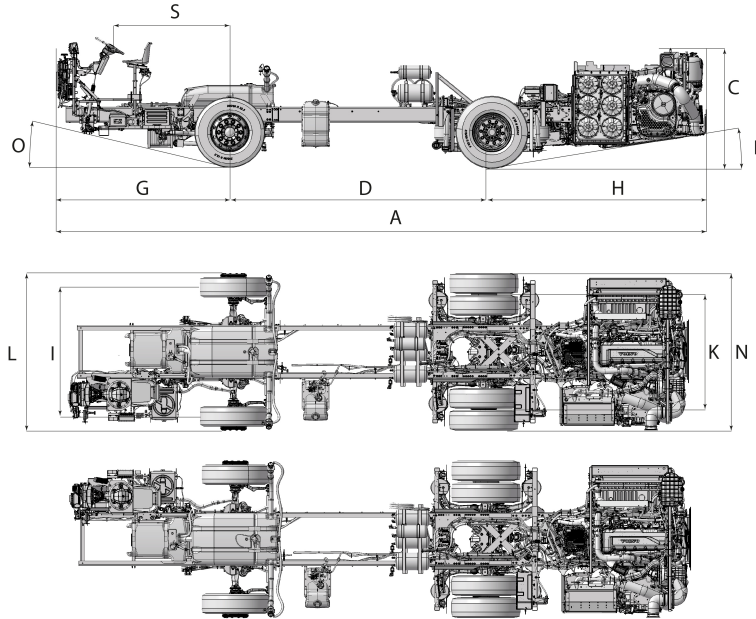


## VOLVO B13R 4X2

Euro 6



Model		B13R, 4 x 2, RFS		B13R, 4 x 2, IFS	
<b>Overall dimensions</b>					
A	Overall chassis length (mm)	SWP1470 (mm)	10490-13190	10390-12590	
		SWP1820 (mm)	10840-13540	10740-12940	
		SWP2050 (mm)	11070-13770	10970-13170	
B	Bogie (mm)	n/a		n/a	
C	Frame height at rear structure (mm)*	1618		1816	
D	Transport wheelbase (mm)	4000		4000	
	Approved wheelbase (mm)	4450-8000		4450-7200 (7,1t) 4450-7000 (7,5t)	
G	Front overhang (mm)	SWP1470 (mm)	2150	2050	
		SWP1820 (mm)	2500	2400	
		SWP2050 (mm)	2730	2630	
H	Rear overhang (mm)	3250		3250	
	Optional rear overhang (mm)	n/a		n/a	
S	Steering wheel position (mm)	SWP1470 (mm)	1470	1470	
		SWP1820 (mm)	1820	1820	
		SWP2050 (mm)	2050	2050	
I	Track, front (mm)	2040		2064	
K	Track, rear (mm)*	1836		1836	
L	Overall width front wheels*	2358		2382	
N	Overall width rear wheels (mm)*	2439		2464	
O	Approach angle (°)	13.3		13.3	
P	Departure angle (°)	7.6		7.6	
	Departure angle for optional rear overhang (°)	n/a		n/a	
*) Track width, overall width and frame height are measured with tyres: and steel rims			315/80R22.5" 9.00"x22.5"	315/80R22.5" 9.00"x22.5"	

# VOLVO B13R 4X2

Euro 6

Model	B13R, 4 x 2, RFS	B13R, 4 x 2, IFS
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Weights		
Permitted front axle load (kg)	7500	7100 / 7500
Permitted drive axle load (kg)	12000	12000
Bogie axle load (kg)	n/a	n/a
Permitted tag axle load (kg)	n/a	n/a
Permitted GVW (kg)	19500	19500

Engine	D13K	D13K
Emission standard	Euro 6	Euro 6
Engine system	SCR, Common rail	SCR, Common rail
Displacement (dm <sup>3</sup> )	13	13
Cylinders/arrangement	6/in-line	6/in-line
<b>Engine rating</b>	<b>D13K380</b>	<b>D13K380</b>
Output (hp)	380	380
Output ISO 1585 (kW); at engine speed 1700-1800 r/m	280	280
Torque ISO 1585 (Nm); at engine speed 830-1400 r/m	1800	1800
<b>Engine rating</b>	<b>D13K420</b>	<b>D13K420</b>
Output (hp)	420	420
Output ISO 1585 (kW); at engine speed 1400-1700 r/m	310	310
Torque ISO 1585 (Nm); at engine speed 900-1400 r/m	2100	2100
<b>Engine rating</b>	<b>D13K460</b>	<b>D13K460</b>
Output (hp)	460	460
Output ISO 1585 (kW); at engine speed 1400-1700 r/m	340	340
Torque ISO 1585 (Nm); at engine speed 950-1400 r/m	2300	2300
<b>Engine rating</b>	<b>D13K500</b>	<b>D13K500</b>
Output (hp)	500	500
Output ISO 1585 (kW); at engine speed 1400-1700 r/m	370	370
Torque ISO 1585 (Nm); at engine speed 1000-1400 r/m	2500	2500

Fuel tanks		
Diesel (L)	3x150, 480, 600, 720	3x150, 480, 600, 720
Transport (L)	50	50
AdBlue (L)	64 or 90	64 or 90

Transmission and axles		
Gearboxes	Volvo I-Shift AT2612G ZF 6AP2020B (only 380 hp)	Volvo I-Shift AT2612G ZF 6AP2020B (only 380 hp)
Front axle	Volvo RFS	Volvo IFS
Rear axle	Volvo RS1228C / RS1328	Volvo RS1228C / RS1328
Tag axle	n/a	n/a
Differential lock	Optional	Optional

Suspension and steering		
Air bellows, front	2	2
Air bellows, drive	4	4
Air bellows, tag	n/a	n/a
Kneeling	Optional	Optional
Max wheel angle	52° with tyres 295/80R22.5"	53° with tyres 295/80R22.5"
Power steering	Hydraulic power steering	Hydraulic power steering
Steering wheel position	LHD/RHD	LHD/RHD

# VOLVO B13R 4X2

Euro 6

## Important information

For variants concerning wheelbase, steering wheel diameter and permitted front axle load, see Type approval according to ECE R79 and ECE R13.

## 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 D13K460 and 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.
- Coolant level warning in instrument cluster.

## 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

## 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

Cut-in pressure	9.5 bar
Cut-out pressure	10.8 bar

## Driver's station

Cluster and controls transit mounted. Also available with Volvo dashboard:

- Dashboard moves with the steering column in height and tilt
- Instrument cluster
  - speedometer
  - rev counter
  - 6.5" display
  - fuel gauge
  - coolant temperature
  - brakes
  - turbo and oil pressure
  - indicators
  - warning lamps
- Tachograph
- Data logging
- External temperature meter
- Fuel economy meter
- Engine controls in engine compartment to enable engine operation from the rear of vehicle
- Lane Keeping Support
- Driver Alert System
- Volvo Dynamic Steering (VDS)
- Adaptive Cruise Control
- I-See

## Electrical system

Automatic shut off of main switch at low voltage level

### Number of batteries

Start batteries	2 x 12 V
Consumer batteries	2 x 12 V

### Battery capacity

Consumer batteries	105 Ah
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### Alternators max output

3 x 150 A. Option: 4 x 150 A