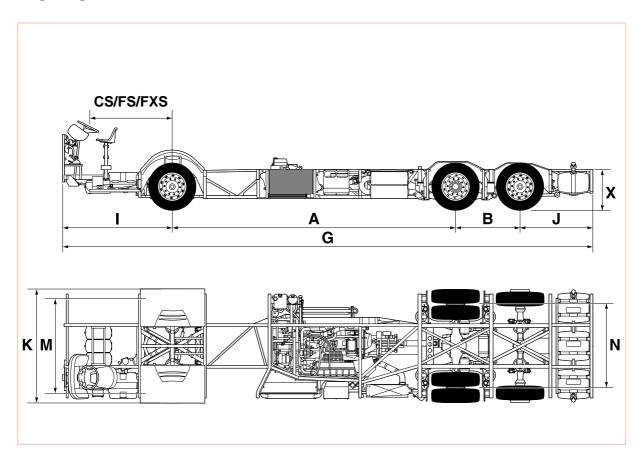
Volvo B12M



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	CHOIC	nio G	110	IMIIL

0	verall dimensions	
Α	Wheelbase	6200 mm
В	Bogie	1400 mm
G	Overall chassis length	
	CS steering	11627 mm
	FS steering	12147 mm
	FXS steering	12377 mm
1	Front overhang	
	CS steering	1839 mm
	FS steering	2359 mm
	FXS steering	2589 mm
J	Rear overhang	2188 mm
St	eering wheel location CS steering FS steering FXS steering	1835 mm
Αŗ	proach angle	10.5°
De	eparture angle	12.4°
	Frame height in front	
X		
	based on tyre 295/80R22	2.5
Tr	ack width with tyres	295/80R22.5"
	and steel disc rim	8.25"x22.5"
	Track, front	
Ν		
K	O TOTAL THAT HOLD	
	Overall width rear wheel	s 2471 mm

Weights Permitted front axle load
Driveline - Engine
6-cylinder, 4-stroke turbo-charged diesel with overhead valves and direct injection. Bore
DH12 340 hp Output ISO 1585

Torque ISO 1585 1850 Nm (189 kpm) at 20 r/s (1200 r/m) DH12C420
Output ISO 1585
at
Fuel tanks Mounted above rear axle400 I Mounted above and behind rear axle 400+150+150 I
Mounted behind the rear axle 2x150 I Mounted behind rear axle 3x150 I Mounted transport tank
Clutch Volvo EGS-V/VR and ZF 6S-1600 uses pull type single dry disc KFD117E. Power assisted clutch control gives low pedal pressure. Diameter
Total friction area 2000 cm ² Driveline - Exhaust and Cooling
System
Optional Coolant filter Optional Oxidizing catalyst Optional Volvo exhaust filter

Volvo B12M

Driveline - Transmission

Transmission Volvo EGS-V

Esay gear shift. Mechanical 8 speed fully synchronized

Volvo EGS-VR

Esay gear shift. Mechanical 8 speed fully synchronized with Volvo compact

ZF 6S-1600

Mechanical 6 speed fully synchronized. **ZF 5HP602**

NBS - neutral on bus stop. 5-speed fully automatic gearbox with integral retarder and electronic control system.

Voith D864.3

ANS - auto neutral at stop. 4 speed fully automatic gearbox with integral retarder and electronic control system. The torque converter also functions as a retarder.

	2	V 01V 0
	6S-1600	EGS-VR
		EGS-V
1st gear		
2nd gear	4.42:1	6.42:1
3rd gear	2.66:1	4.77:1
4th gear	1.79:1	3.75:1
5th gear	1.28:1	2.44:1
6th gear	1.00:1	1.71:1
7th gear		1.27:1
8th gear		1.00:1
Reverse		
	ZF5HP	Voith
	602	D864.3
Torque converter	1.83:1	4.96:1
1st gear	2.81:1	1.36:1
2nd gear	1.84:1	1.00:1
3rd gear	1.36:1	0.73:1
4th gear	1.00:1	
5th gear	0.80:1	
Reverse		
Optional		

Driveline - Rear axle and tyres

Single reduction of hypoid type. Max speed km/h at max engine revs with tyre 295/80R22.5 Ratio: 5.29:1 .. 4.63:1 .. 4.11:1 Volvo EGS-V/VR 89 ZF 6S-1600 89 5HP602 90 102 Voith D864.3: 95 109

Max speed km/h at max engine revs with tvre 295/80R22.5 Ratio: 3.70:1 .. 3.36:1 .. 3.08:1

Volvo EGS-V/VR	99	109	119
ZF 6S-1600	99	109	119

Optional	Differential	lock
Optional	Speed lir	niter

Tyres & Rims

10-stud steel or aluminium disc wheels. Dual driving axle wheels.

Rims	Tyres
8.25"x22.5"	295/80R22.5"
	12R22.5"
9.00"x22.5"	315/80R22.5"
	295/80R22.5"

Optional Spare wheel

Suspension and Steering

Individual front axle susp	pension.	
Numbers	Front	Rear
Air bellows	2	6
Levelling valves	1	2
Stabilizer both front and	rear.	
0		

Shock absorbers. Double-acting, hydraulic telescopic shock absorbers, four front, four rear.

Bogie suspension can be either steered or fixed.

Ontional	I/maalina
Obtional	 Kneeling

Steering gear

Volvo

Power steering of ball and nut type with built-in servo unit. Max wheel angle 53° Steering wheel diameter 500 mm

Air and Brake system

Service brakes

Air brakes complying with EEC regulations with separate circuits for front and rear

Airdrier. Automatic brake adjustment. Asbestos free brake linings.

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Drane ming wan.	
Front	8" (203 mm)
Rear	10" (254 mm)
Friction area:	
Front axle, disc brake	e 904 cm²
Rear axle, drum brak	e 3450 cm ²
Total	4354 cm ²
Brake system, operating	pressure
	7.5-7.7 kp/cm ²
Compressor capacity at	10 bar and engine
speed 33 r/s (2000 r/m)	-
	15 dm ³ /s (900 l/m)
Compressor ratio	1 46.1

	. 15 dm ³ /s (900 l/m)
Compressor ratio	
Air tanks standard	
- Primary	30 dm ³ (l)
- Front circuit	30 dm³ (l)
- Rear circuit	30 dm³ (l)
- Park circuit	15 dm³ (l)
Compressed air systen	n can easily be filled
from external circuit.	·

Handbrake

Air operated spring brake acting directly on the rear wheels. Application is infinitely variable by means of a control on the fascia

Optional		ABS
Optional	Traction	control

Vehicle Structure

The frame is made of stainless steel. Precision welded box frame construction, consisting of 3 and 4 mm RHS profiles.

Ventilation, Heating and **Airconditioning system**

In order to meet various climate conditions there is space for a number of different kinds of aircondition compressor unit. The compressor is belt driven by engine mounted

Driver's seat and Station

Adjustable steering wheel, both height and tilt, with (as an option) the instrument panel following. Self cancelling turn indicators.

Dashboard, mid module: Tachometer, speedometer. Indicator lamps for door brake, parking brake, turn indicator, full headlights, differential lock, kneeling, ABS failure, rear fog lights, seat belt.

Dashboard, left module: Gauges for oil pressure, coolant temperature, turbo pressure. Message Centre Display (MCD) indicating fault conditions and pre-trip check to confirm to the driver that all systems are serviceable before the bus sets off. Indicator lamps for engine preheat, attention and stop.

Dashboard, right module: Gauges for brake pressure front and rear, fuel. Indicators for next stop, pram, central warning.

Instrumentation, behind engine. Selector switch for front or rear operation, starting, charging lamp, mechanical stop, oil gauge. These controls enable the engine to be run and controlled from the tail of the vehicle during service work, etc.

Optional Speedometer with tachograph Optional Datalog infomation center

Electrical system

Number of batteries 2	
Voltage 24 V	
Battery capacity 170/220 Ah	
Alternators max output 2x80/115/	
140/180/2x140 A	
The system also incorporates starter inhibi-	
tor relay and one transistor regulator.	
Optional Amperemeter	
Optional Fuel consumption meter	
Optional Outdoor/indoor temp meter	
OptionalCruise control	