



Chassis Dimensions [mm]

WB Wheelbase	3000	3200	3400	3600
A Overall Chassis Length	6537	6737	6937	7137
D Centre of rear axle to back of cab	2004	2204	2404	2604
T Theoretical Wheelbase	3685	3885	4085	4285

Chassis Weights [kg]

Front Axle	5145	5160	5165	5180
Rear Bogie	4255	4255	4265	4275
Kerb Weight	9400	9415	9430	9455

Turning Diameter [mm]

Turning Circle Diameter Kerb to Kerb	13000	13600	14300	14900
Turning Circle Diameter Wall to Wall	14700	15300	15900	16600

Plated Weights [kg]

	Plated	Design
Gross Vehicle Weight	26000	41000
Gross Combination Weight	44000	100000
Front Axle	7100	9000
Rear Bogie	19000	32000

Important Notes

Chassis Dimensions

Cab Height: -115 mm for L1EH1, +404 mm for L2H2, +542 mm for L2H3.
 Front Axle to Back of Cab: -436 mm for L1EH1.
 D-measure includes a front clearance of 50 mm and for rigid trucks also a subframe of 100 mm.
 Height can vary ± 20 mm for leaf and ± 10 mm for air suspension.
 All dimensions are for unladen chassis and any tag axles down.

Weight and dimensions are based upon the following tyres:

Front Axle Tyres: 295/80R22.5
 Drive Axle Tyres: 295/80R22.5

Chassis weight includes oil, water, AdBlue, 70 litres fuel and without driver.
 Kerb weight can vary $\pm 1.5\%$.

Turning diameters are theoretically calculated.

Legal weights can differ from country to country.

For more detailed weight information, including optional equipment weights, ask your Volvo sales contact to enter your specification into the Volvo Weight Information system (WIS).

Do NOT use this drawing for bodybuilding. Refer to Volvo Bodybuilder Instructions and chassis assembly drawing 3199926, 3199946, 3199927.

CORE COMPONENTS

- L1EH1** Day cab - with steel safety cage design
Designed and built to Swedish impact and ECE R29 regulations
- L2H1** Sleeper cab - with steel safety cage design
Designed and built to Swedish impact and ECE R29 regulations
- L2H2** Globetrotter cab - with steel safety cage design
Designed and built to Swedish impact and ECE R29 regulations
- L2H3** Globetrotter XL Cab - with steel safety cage design
Designed and built to Swedish impact and ECE R29 regulations
- EU5EEV** Euro 5 EEV Enhanced Environmental Vehicle
- EU5SCR-M** Euro 5 Mandatory engine emission level.
- D13C420** D13C420 12.8l engine developing 420hp at 14-1900rpm.
Peak torque 2100Nm at 1000-1400rpm.
- D13C460** D13C460 12.8l engine developing 460hp at 14-1900rpm.
Peak torque 2300Nm at 1100-1400rpm.
- D13C500** D13C500 12.8l engine developing 500hp at 14-1900rpm.
Peak torque 2500Nm at 1100-1400rpm.
- D13C540** D13C540 12.8l engine developing 540hp at 1450-1900rpm.
Peak torque 2600Nm at 1100-1400rpm.
- EBR-EPG** Exhaust brake controlled by steering column switch, D9 engine with manual box has switch on dash.
- EBR-EPGC** Exhaust pressure governor for I shift gearbox
- EBR-VEB** Volvo engine brake and exhaust pressure governor
- EBR-VEB+** Volvo engine brake + and exhaust pressure governor, enhanced performance from additional exhaust rocker control.
- AT2412D** AT2412D 12-speed "I-shift" automated mechanical gearbox suitable for gross train weights up to 44tonne only refer to sales engineering when used in conjunction with a PTO
- AT2612D** AT2612D 12-speed "I-shift" automated mechanical gearbox suitable for gross train weights up to 60tonne only refer to sales engineering when used in conjunction with a PTO
- ATO2612D** ATO2612D 12-speed "I-shift" overdrive automated mechanical gearbox suitable for gross train weights up to 60tonne refer to sales engineering when used in conjunction with a PTO
- PT2606** PT2606 6-speed "Powertronic" automatic gearbox
- VT2214B** VT2214B Manual 14-speed range & splitter gearbox
- VT2514B** VT2514B Manual 14-speed range & splitter gearbox
- VT2814B** VT2814B Manual 14-speed range & splitter gearbox
- VTO2214B** VTO2214B Manual 14-speed range & splitter gearbox with overdrive top gear
- VTO2514B** VTO2514B Manual 14-speed range & splitter gearbox with overdrive top gear
- VTO2814B** VTO2814B Manual 14-speed range & splitter gearbox with overdrive top gear
- TP-DICON** I-shift software - Distribution and Construction
- TP-FUEC** I-shift software - Long Haul, Fuel & economy
- TP-HD** I-shift software - Heavy duty for high GCW
Special conditions apply consult Sales Engineering
- AMSO-AUT** Enhanced I-shift software with manual shift available in auto mode
Kickdown facility on accelerator pedal
- AMSO-BAS** Basic I-shift software without kickdown on accelerator pedal
- AVO-BAS** Basic application software
- AVO-ENH** Enhanced software for off road driveability and starting
- CD40B-O** Twin plate 394mm (16") clutch
- CS43B-O** Single plate 430mm (17") clutch
- CS43B-OR** Single plate 430mm (17") reinforced clutch
- FAL9.0** Front axle design capacity 9.0 tonnes
- FST-MUL** Front Multileaf Springs
- FST-PAR** Parabolic front springs
- FST-PAR3** Stiff parabolic front springs

Standard Equipment

Optional Equipment

For more detailed information about cab and powertrain equipment, please refer to separate specification sheets.

For all possible options and combinations of options please consult your Volvo sales contact who can create a specification to match your requirements using the Volvo Sales Support system (VSS).

The factory reserves the right to modify design and change equipment without previous notification. The specification can vary from country to country.

- FSM-LUB** Lubricated rear shackles on front suspension pins and bushings
- FSTAB** Front anti-roll bar
- FSTAB2** Front anti-roll bar medium stiffness
- FSTAB3** Front stiff anti-roll bar
- RADD-TR2** T-ride 2 rear two spring bogie suspension, 90mm wide springs
- RT3210HV** RT3210HV hub reduction 32tonne drive axles with GCW capacity of 100tonnes with differential and cross locks
- RAL32** Rear bogie design capacity 32 tonnes
- RST-MUL** Rear Suspension, Multi-leaf springs

PACKAGES

- DRIVE** Driving package
- DRIVE+** Driving package plus
- 1BED** Living package with single bed:
- 1BED+** Living package with single bed plus:
- 2BED** Living package with two beds:
- 2BED+** Living package with two beds plus:
- AUDADV** Audio advanced
- AUDADVP** Audio advanced power
- AUDBAS** Audio basic
- AUDMED** Audio medium
- VISI** Visibility package
- PEPROT** Personal protection package

TRUCK USE

- ADR2** ADR package for transportation of dangerous goods on road (Note does NOT include safe loading pass package if required this is quoted separately)
- ADR3** ADR package for transportation of dangerous goods on road with vehicle electrics only supplied to meet the requirements of UK safe load pass scheme.
This is a preparation package only the vehicle still requires an SLP package, firescreen etc.
- PSCOOL** Power steering cooler
- STWPOS-L** Left hand drive
- STWPOS-R** Right hand drive

CHASSIS

- BRAKE-ZV** Volvo Z cam drum brakes
- AUXPARK** Additional spring parking brakes
- ABS-WHL** ABS anti-lock brake system
- FRAME88** Frame thickness 8mm
- FIL-TXEB** Inner liner from gearbox member to end of bogie
- FRAMEHIG** Frame section height 300mm
- BBOX-L** Battery box located on left hand side
- 2BATT170** 2 x 170 Ah capacity batteries
- 2BATT225** 2 x 225 Ah capacity batteries
- BAMAFREE**
- R330A71** Right aluminium 710 mm D-shaped fuel tank, 330 litres volume
Min volume 150l
Max volume 810l
- ADTR125** 125 litre steel AdBlue tank on right hand side.
- ADTR40** 40 litre plastic AdBlue tank on right hand side.
- ADTR60** 60 litre plastic AdBlue tank on right hand side.
- ADTR95** 95 litre steel AdBlue tank on right hand side.
- UL-FUEL** Without left fuel tank
Min volume 160l
Max volume 450l
- ADTL125** 125 litre steel AdBlue tank on left hand side.
- ADTL40** 40 litre plastic AdBlue tank on left hand side.

- ADTL60** 60 litre plastic AdBlue tank on left hand side.
- ADTL95** 95 litre steel AdBlue tank on left hand side.
- **FCAP-L** Locking fuel filler cap
- ESH-LEFT** Horizontal silencer, left exhaust outlet
- ESH-REAR** Horizontal silencer, rear exhaust outlet
- **ESH-RIGH** Horizontal silencer, right exhaust outlet
- ESH-VERT** Horizontal silencer, vertical exhaust outlet
- ESV-VERT** Vertical silencer, vertical exhaust outlet
- EXSH-STX** Additional exhaust heat shield
- SWCP-LB** Spare wheel carrier on left side of chassis under battery box
- SWCP-LF** Spare wheel carrier on left side of chassis ahead of rear axle
- SWCP-T** Spare wheel supplied temporarily strapped to chassis
- SWCP-TP** Temporary spare wheel carrier on top of chassis frame
- LUB-CENT** Central lubrication
- WHC-TRP2** Two wheel chocks delivered loose in cab
- **WHCHOCK2** Two wheel chocks
- TB-L80** Toolbox 800 mm, left side
- TB-R80** Toolbox 800 mm, right side
- SUP-BAS** Side guard protection
- CHAIN-S** Snow chains
- HOOK-SC** Snow chain hooks
- TOWR-ONE** Towing hitch attached to rear crossmember
- **RFEND-B** Three piece rear mudwings

WHEELS & TYRES

- WL-AL** Unpolished "Alcoa" aluminium rims with long stud fixing
- WL-ALDP** Dura-Bright "Alcoa" aluminium rims with long stud fixing
- WL-ALDPP** Dura-Bright "Alcoa" aluminium rims with countersunk hole fixing for short studs
- WL-ALDU** Unpolished "Alcoa" aluminium rims with countersunk hole fixing for short studs
- WL-ALP** Polished "Alcoa" aluminium rims with long stud fixing
- WL-ALPDU** Polished "Alcoa" aluminium rims with countersunk hole fixing for short studs
- **WL-ST** Steel rims
- SPWT-D** Spare wheel & tyre with rear tyre pattern
- SPWT-F** Spare wheel & tyre with front tyre pattern
- WCAP** Aerodynamic hub caps

DRIVELINE EQUIPMENT

- RET-TH** Transmission mounted retarder
- RET-TPT** Retarder - Powertronic gearbox
- 1COMP530** Single cylinder, air compressor, 530 litres per minute
- **2COM1080** Two cylinder, air compressor, 1080 litres per minute
- 2COMP900** Two cylinder, air compressor, 900 litres per minute
- **AIRIN-HI** Roof mounted air intake behind cab on left hand side
- AIRIN-LO** Low level air intake behind cab on left hand side
- ACL1ST-S** Two stage air filter
- 24AL120B** 120 amp heavy duty alternator
- 24AL150B** 150 amp heavy duty alternator
- **24ALT-XB** 110 amp heavy duty alternator
- CCV-C** Closed crankcase engine ventilation
- CCV-OX** Closed crankcase ventilation for cold markets
- **COOLC48** Cooling capacity 48° C, ATB
- TC-HWO** Transmission cooler, hydraulic transm., water/oil
- **TC-MAOH2** Oil cooler/mechanical transmission, air/oil, extra high performance
- TC-MWO** Transmission oil cooler - water to oil
- TC-MWOH2** Oil cooler/mechanical transmission, water/oil, high performance
- TC-RWO** Transmission oil cooler for retarder
- **TRAP-HD** Heavy-duty nodular iron range housing

- Standard Equipment
- Optional Equipment

For more detailed information about cab and powertrain equipment, please refer to separate specification sheets.

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For operations where more than 5% driving in low range is performed and transportations with high gross combination weights operating in "Hilly" and "Very hilly" topographies.

- AF-E** Auxiliary fuel filter, electrically heated
- EST-AID** Air inlet manifold starting heater element
- PTER-DIN** Rear engine mounted PTO with DIN5462 (female) splined shaft for a close coupled pump
- PTER1400** Rear engine mounted power-take-off with SAE 1410 flange
- HPE-F101** Parker F1-101, fixed displacement, single flow, engine mounted hydraulic pump
- HPE-F41** Parker F1-41, fixed displacement, single flow, engine mounted hydraulic pump
- HPE-F51** Parker F1-51, fixed displacement, single flow, engine mounted hydraulic pump
- HPE-F61** Parker F1-61, fixed displacement, single flow, engine mounted hydraulic pump
- HPE-F81** Parker F1-81, fixed displacement, single flow, engine mounted hydraulic pump
- HPE-T53** Parker F2-53/53, Fixed displacement, Twin flow engine mounted hydraulic pump
- HPE-T70** Parker F2-70/35, Fixed displacement, Twin flow engine mounted hydraulic pump
- HPE-V120** Parker VP1-120, variable displacement, single flow, engine mounted hydraulic pump
- HPE-V45** Parker VP1-45, variable displacement, single flow, engine mounted hydraulic pump
- HPE-V75** Parker VP1-75, variable displacement, single flow, engine mounted hydraulic pump
- PTPT-D** PTO Powertronic din connection
- PTPT-F** PTO Powertronic flange connection
- PTR-D** Gearbox PTO for plug-in pump, 0.71xeng speed
- PTR-DH** Gearbox driven high speed PTO for one plug-in hydraulic pump
- PTR-DM** Gearbox driven medium speed PTO for one plug-in hydraulic pump
- PTR-F** Gearbox driven PTO with rear flange connection
- PTR-FH** Gearbox driven high speed PTO with SAE drive flange
- PTR-FL** Gearbox driven low speed PTO with SAE drive flange
- PTRD-D** Gearbox driven HIGH SPEED PTO for two plug-in hydraulic pumps
- PTRD-D1** PTRD-D1 Gearbox driven HIGH SPEED PTO (1 SAE flange & 1 plug-in hydraulic pump)
- PTRD-D2** Gearbox driven HIGH SPEED PTO (2 SAE flanges & 1 plug-in hyd pump)
- PTRD-F** PTO with 1 DIN + 1 flange connection rear, manual gearbox
- APF-BAS** I-shift basic PTO functions
- APF-ENH** I-shift enhanced PTO functions
- HPG-F101** Parker F1-101 gearbox mounted, fixed displacement, single flow, hydraulic pump
- HPG-F41** Parker F1-41 gearbox mounted, fixed displacement, single flow, hydraulic pump
- HPG-F51** Parker F1-51 gearbox mounted, fixed displacement, single flow, hydraulic pump
- HPG-F61** Parker F1-61 gearbox mounted, fixed displacement, single flow, hydraulic pump
- HPG-F81** Parker F1-81 gearbox mounted, fixed displacement, single flow, hydraulic pump
- HPG-V120** Parker VP1-120 variable displacement, single flow, gearbox mounted hydraulic pump

CAB EXTERIOR

- BUMP-P** Three piece plastic front bumper without spoiler
- **BUMP-S** Three piece steel front bumper without spoiler
- GUARD-EH** Guard plate for cooling pipes and oil sump
- CABS-FUA** Air suspended cab with automatic height/level control
- **CABS-MEC** Coil spring cab suspension with shock absorbers
- CABS-REA** Cab suspension, rear air and front mechanical
- BUMP-SP** Front bumper spoiler

- **AD-ROOF** Roof air deflector
- **AD-ROOFB** Roof air deflector with illumination panel
- **AD-SIDEL** Side air deflector extension panels
- **RFCAR-BC** Rear mudwing carrier, back of cab
- **LADDER** Ladder back of cab

SUPERSTRUCTURE PREPARATIONS

- **5WM-ISHD** Heavy duty 5th wheel mounting with 16 mm mounting plate
- **5WM-ISOH** 5th wheel subframe 90mm high above chassis frame

- **5WH150** Fifth wheel leg-height 150 mm
- **5WH185** Fifth wheel leg-height 185 mm
- **5WH190** Fifth wheel leg-height 190 mm

- **5WT-GFHD** George Fischer SK-HD 38.36 cast heavy duty fifth wheel
- **5WT-JO** Jost cast fixed fifth wheel for on/offroad use maximum GCW 65tonnes

- **RAMP-LOW** Low lead up ramps - small wedge type
- **RAMP-MED** Medium height lead up ramps - small wedge type

- **RDECK** Catwalk & step
- **RDECK-M** Rear catwalk 760mm

- **WL-TA1A** Amber coupling light
- **WL-TA1W** White coupling light

- **TBC-DUO** Duomatic type air line connectors
- **TBC-EC** Palm coupling type air line connectors
- **TBC-GBR** 'C' and 'CA' type air line connectors

- **TRCON145** Trailer cable connection 14-pin connector for ADR vehicles (ADR).
- **TRCON147** Trailer cable connection 14-pin connector without ADR (UADR).
- **TTRCON15** 15pin suzie with 15pin socket on tractor plus ABS/EBS suzie. Required for ADR operations.
- **TTRCON7** Single 7 pin trailer connector not for UK and Ireland
- **TTRCON77** 24N & 24S suzie with 15pin connector on tractor plus ABS/EBS suzie.

- **TD-BAS** Trailer detection WITHOUT LED sensing
- **TD-LED** Trailer detection with LED sensing

- **TAILPREP** Taillift preparation kit - cab switch and warning in driver display

VOLVO

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