



Chassis Dimensions [mm]

WB Wheelbase	3900	4100
A Overall Chassis Length	6275	6475
D Centre of rear axle to back of cab	2904	3104
F Fifth Wheel Position (EC Directive 96/53)	775	975
T Theoretical Wheelbase	3396	3596

Chassis Weights [kg]

Front Axle	4945	4965
Rear Bogie	3000	3020
Kerb Weight	7945	7985

Turning Diameter [mm]

Turning Circle Diameter Kerb to Kerb	12100	12800
Turning Circle Diameter Wall to Wall	13800	14400

Plated Weights [kg]

	Plated	Design
Gross Vehicle Weight	23400	26100
Gross Combination Weight	44000	44000
Front Axle	7100	7100
Rear Bogie	18600	19000

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.
 Height change when chassis height CHH-MED,FRAMELOW: -54 mm.

Weight and dimensions are based upon the following tyres:

Front Axle Tyres:	295/80R22.5
Drive Axle Tyres:	295/80R22.5
Trailing/Pusher 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 3199915, 3199916.

CORE COMPONENTS

- CHH-MED** Chassis frame height medium 900mm nominal above ground level
- CHH-STD** Chassis frame height standard 1000mm nominal above ground level
- 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
- 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
- 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
- CD38B-O** Twin plate 380mm (15") clutch
- CD40B-O** Twin plate 394mm (16") clutch
- CS43B-O** Single plate 430mm (17") clutch
- CS43B-OR** Single plate 430mm (17") reinforced clutch
- FAL7.1** Front axle design capacity 7.1 tonnes
- FAL8.0** Front axle design capacity 8.0 tonnes

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.

- FST-PAR** Parabolic front springs
- FSTAB2** Front anti-roll bar medium stiffness
- FSTAB3** Front stiff anti-roll bar
- BOGLIFT** Rear bogie fitted with lifting push/tag axle
- RAPD-A6** Six bag air suspended push axle rear bogie
- RS1356SV** RS1356SV single reduction rear axle with GCW capacity 56tonne design with differential lock
- RS1370HV** RS1370HV hub reduction 13tonne drive axle with GCW capacity of 70tonnes with differential lock
- RSS1344C** RS1344C single reduction rear axle - design GCW 44tonne with differential lock
- RAL19** Rear bogie design capacity 19 tonnes
- RSTAB1** Rear anti-roll bar
- RSTAB3** Rear stiff anti-roll bar
- PU-EHYS** Electro-hydraulically steered pusher axle
- PU-FIXS** Fixed pusher axle
- TRAL63** 6.28 (push)/ 11.72 (drive) tonnes load distribution
- TRAL67** Tag axle load, 6.70 tonnes
- TRAL71** 7.1/11.5 bogie load distribution
- TRAL75** 7.5/11.5 bogie load distribution
- RALIM115** Rear axle load limiter, 11.5 tonnes

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
- VISI+** Visibility plus package
- PSAFE** Active safety package
- PSAFE+** Active safety plus package
- PEPROT** Personal protection package

TRUCK USE

- RC-SMOOT** Operating class highway
- ADR2** ADR package for transportation of dangerous goods on road (Note does NOT include safe loading pass package if required this is quoted separately)
- PSCOOL** Power steering cooler
- STWPOS-L** Left hand drive
- STWPOS-R** Right hand drive

CHASSIS

- BRAKE-DV** Disc brakes
- EBS-HIG** EBS high package including vehicle stabilization program
- EBS-MED** EBS medium package including "hill" hold function
- ABS-EBS** ABS Anti-lock/electronic brake system
- SUSPL-EC** Remote electronic control on wander-lead for air suspension levelling
- FRAME88** Frame thickness 8mm
- FRAMELOW** Frame section height 266mm
- BBOX-EF** Battery box located in the end of frame
- 2BATT225** 2 x 225 Ah capacity batteries

- **BAMAFREE**
- **UR-FUEL** Without right fuel tank
Min volume 150l
Max volume 530l
- **ADTR125** 125 litre steel AdBlue tank on right hand side.
- **ADTR60** 60 litre plastic AdBlue tank on right hand side.
- **L480A71S** Left aluminium 710mm 480litre (440l usable) D-shaped fuel tank with catwalk step
Min volume 480l
Max volume 550l
- **FCAP-L** Locking fuel filler cap
- **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
- **WHCHOCK2** Two wheel chocks
- **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**
- **WT-AL** Unpolished "Alcoa" aluminium wheels with long stud fixing
- **WT-ALDP** Dura-Bright "Alcoa" aluminium rims with long stud fixing
- **WT-ALDPD** Dura-Bright "Alcoa" aluminium rims with countersunk hole fixing for short studs
- **WT-ALDU** Unpolished "Alcoa" aluminium wheels with countersunk hole fixing for short studs
- **WT-ALP** Polished "Alcoa" aluminium wheels with long stud fixing
- **WT-ALPDU** Polished "Alcoa" aluminium wheels with countersunk hole fixing for short studs
- **WT-ST** Steel wheels
- **WCAP** Aerodynamic hub caps
- DRIVELINE EQUIPMENT**
- **RET-TH** Transmission mounted retarder
- **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**
- **24ALT-XB** 110 amp heavy duty alternator
- **CCV-C** Closed crankcase engine ventilation
- **CCV-OX** Closed crankcase ventilation for cold markets
- **COOLC40** Cooling capacity 40° C, ATB
- **COOLC48** Cooling capacity 48° C, ATB
- **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
- **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

■ Standard Equipment □ Optional Equipment

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- **HPE-F51** hydraulic pump
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
- **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 pump
- **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-ASM** 50mm high 'L' profiles for air actuated sliding 5th wheel
- **5WM-ISOL** 5th wheel subframe 16mm high above chassis frame
- **5WM-ISOM** 5th wheel subframe 60mm high above chassis frame L profiles 50mm with 10mm thick plate
- **5WM-LPRO** 5th wheel attached direct to frame with inverted 'L'-profiles
- **5WM-MASM** 50mm high 'L' profiles for manual sliding 5th wheel
- **5WH150** Fifth wheel leg-height 150 mm

- **5WH160** Fifth wheel leg-height 160 mm
- **5WH175** Fifth wheel leg height 175mm
- **5WH185** Fifth wheel leg-height 185 mm
- **5WH195** Fifth wheel leg-height 195mm
- **5WH200** Fifth wheel leg-height 200 mm
- **5WH205** Fifth wheel leg-height 205 mm
- **5WH210** Fifth wheel leg-height 210 mm
- **5WH220** Fifth wheel leg-height 220mm
- **5WH230** Fifth wheel leg-height 230 mm

- **5WT-FOP** Fontaine 150SP fixed pressed steel 5th wheel for on road use maximum GCW 44tonne
- **5WT-FOS** Fontaine 135SF pressed manual sliding fifth wheel for on road use maximum GCW 65tonne
The quoted fifth wheel position is given in the rearmost position.
- **5WT-GF** George Fischer fixed fifth wheel
- **5WT-GFM** George Fischer fixed fifth wheel, low maintenance with lube free plate
- **5WT-JO** Jost cast fixed fifth wheel for on/offroad use maximum GCW 65tonnes
- **5WT-JOP** Jost JSK 36D fixed pressed steel fifth wheel for on road use maximum GCW 44tonnes
- **5WT-JOS** Jost pressed air actuated sliding fifth wheel for on road use maximum GCW 44tonnes
The quoted fifth wheel position is given in the rearmost position

- **RAMP-HIG** High lead up ramps - small wedge type
- **RAMP-LOW** Low lead up ramps - small wedge type
- **RAMP-MED** Medium height lead up ramps - small wedge type
- **RAMP-MHD** Heavy duty medium height lead up ramps

- **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-LED** Trailer detection with LED sensing
- **TRBR-EBS** Electronic trailer brake control
- **TAILPREP** Taillift preparation kit - cab switch and warning in driver display

VOLVO

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