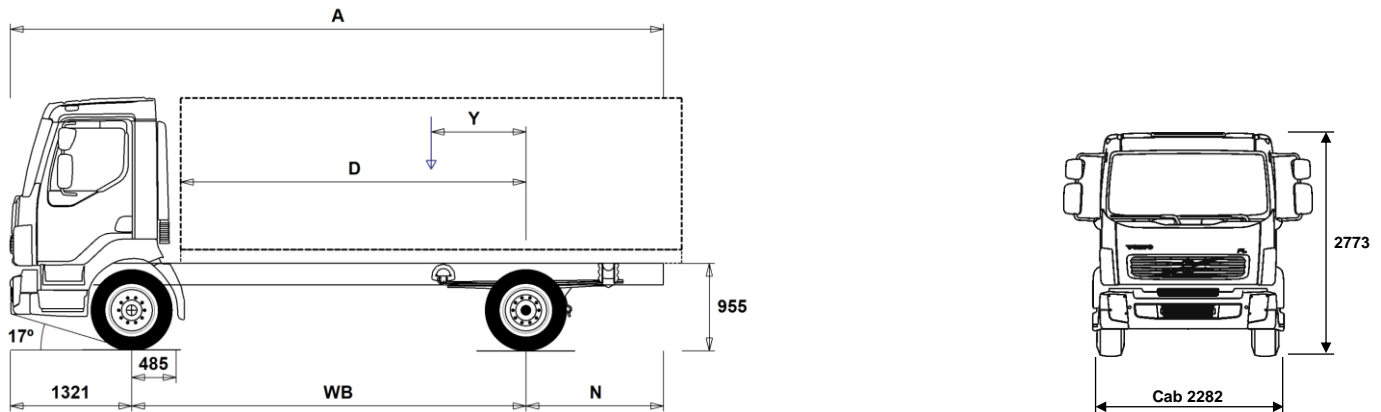


# MODEL RANGE



Volvo Trucks. Driving Progress

FL L 16tonne 4x2 Rigid Steel 19.5" - DO NOT USE FLL42 RD 16L



## Chassis Dimensions [mm]

WB Wheelbase	3070	3250	3500	3800	4100	4400	4700	5000	5300	5600	5900	6200	6500
A Overall Chassis Length	6216	6546	6976	7426	7956	8426	8916	9436	9916	10426	10936	11431	11731
D Center of rear axle to front of body	2535	2715	2965	3265	3565	3865	4165	4465	4765	5065	5365	5665	5965
N Rear Overhang (Min.)	1395	1515	1685	1885	2085	2255	2485	2685	2895	3095	3295	3505	3755
N Rear Overhang (Max.)	1825	1975	2155	2305	2535	2705	2895	3115	3295	3505	3715	3910	3910
Y Center of Gravity for Payload (Min.)	555	587	633	691	746	801	856	909	966	1025	1080	1140	1194
Y Center of Gravity for Payload (Max.)	744	788	849	928	1001	1075	1149	1221	1298	1375	1451	1530	1603

## Chassis Weights [kg]

Front Axle	3050	3050	3050	3050	3055	3055	3055	3060	3060	3055	3060	3055	3060
Rear Axle	1590	1600	1615	1695	1700	1710	1720	1725	1745	1760	1790	1820	1830
Kerb Weight	4640	4650	4665	4745	4755	4765	4775	4785	4805	4815	4850	4875	4890
Payload (including body, driver, fuel, etc.)	11360	11350	11335	11255	11245	11235	11225	11215	11195	11185	11150	11125	11110

## Turning Diameter [mm]

Turning Circle Diameter Kerb to Kerb	11100	11600	12400	13300	14200	15100	16000	16900	17800	18700	19600	20500	21400
Turning Circle Diameter Wall to Wall	12400	12900	13700	14600	15500	16400	17300	18200	19100	20000	20900	21800	22700

## Plated Weights [kg]

	Plated	Design
Gross Vehicle Weight	16000	16000
Gross Combination Weight	40000	
Front Axle	5800	5800
Rear Axle	10900	10900

## Important Notes

### Chassis Dimensions

Cab Height: +3 mm for L2H1.  
 Front Axle to Back of Cab: +331 mm for L2H1.  
 D-measure includes a front clearance of 50 mm and for rigid trucks also a subframe of 120 mm.  
 Height can vary  $\pm 20$  mm for leaf and  $\pm 10$  mm for air suspension.  
 All dimensions are for unladen chassis and any tag axles down.  
 Rear overhang used for vehicle weight calculation is the maximum rear overhang (N Max.) for selected wheelbase.

Weight and dimensions are based upon the following tyres:

Front Axle Tyres:	285/70R19.5
Drive Axle Tyres:	285/70R19.5

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 20824851, 20824853.

# MODEL RANGE

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## CORE COMPONENTS

- ENGPROT** Engine protection
- **L1H1** Short day cab - with steel safety cage design  
Designed and built to Swedish impact and ECE R29 regulations
- L2H1** Medium cab - with steel safety cage design  
Designed and built to Swedish impact and ECE R29 regulations
- EU4SCR** Euro 4 SCR Selective Catalytic reduction
- EU5EEV** Euro 5 EEV Enhanced Environmental Vehicle
- **EU5SCR-M** Euro 5 Mandatory engine emission level.
- D7E240** D7E240 7.2l engine developing 240hp  
Max torque 920Nm at 1200-1700rpm.
- D7E280** D7E280 7.2l engine developing 280hp  
Max torque 1050Nm at 1200-1700rpm.
- **D7F240** D7F240 7.2l engine developing 240hp  
Max torque 940Nm at 1200-1800rpm.
- D7F260** D7F260 7.2l engine developing 260hp  
Max torque 1010Nm at 1200-1800rpm.
- D7F290** D7F290 7.2l engine developing 290hp  
Max torque 1070Nm at 1200-1800rpm.
- EBR-CBJ3** Engine brake producing 188kW at 2800rpm  
controlled by steering column switch
- **EBR-EPG** Exhaust brake producing 130kW at 2800rpm  
controlled by steering column switch
- AL306** Allison AL306 6-speed automatic gearbox  
(If a PTO is required it must be specified from the factory)
- ATO1056** ATO1056 6-speed overdrive "I Sync" automated mechanical  
gearbox
- **ZTO1006** ZTO1006 6-speed overdrive gearbox
- ZTO1109** ZTO1109 9-speed range change overdrive gearbox
- **CS39A-O** Single plate 395mm (16") clutch
- **FAL5.8** Front axle design capacity 5.8 tonnes
- **FST-PAR** Parabolic front springs with shock absorbers and anti roll bar
- FST-PAR3** Stiff parabolic front springs with shock absorbers and anti roll  
bar
- **RAD-L80** 80mm parabolic rear springs
- **RSS1125A** RS1125A single reduction rear axle - design GCW 25tonne  
with differential lock
- RSS1132A** RS1132A single reduction rear axle - design GCW 32tonne  
with differential lock
- **RAL10.9** Rear axle design capacity 10.9 tonnes
- **RST-PAR3** Stiffer parabolic rear springs
- **RSTAB1** Rear anti-roll bar

## Packages

- DAY1** FL day cab
- MEDIUM2P** FL Medium cab with 3 person Seating and Storage
- MEDIUM3P** FL Medium cab with 3 person Seating and Storage
- REST1** FL Medium cab with 580mm Occasional rest bunk
- REST2** FL Medium cab with 780mm Fold down bunk
- AUDIODAB**
- **AUDIOPD**

## TRUCK USE

- LTRW1** Legal trailer weight up to 10tonnes
- LTRW2** Legal trailer weight more than 10tonnes
- ADR2** ADR package for transportation of dangerous goods on road  
(Note does NOT include safe loading pass package if required  
this is quoted separately)
- STWPOS-L** Left hand drive
- **STWPOS-R** Right hand drive

## CHASSIS

- **BRAKE-DV** Ventilated disc brakes

- 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.

- EBS-MED** EBS+ package including traction control & hill hold
- **EBS-STD** EBS standard package without traction control
- **FRAME77** Frame thickness 7mm
- FRAME88** Frame thickness 8mm
- **FRAME220** Frame section height 220mm (measured internally)
- **FMAT-HT** Frame material high tensile steel
- FRACLOS** Frame end closing
- **2BATT170** 2 x 170 Ah capacity batteries on left hand side
- EXD-LEFT** Horizontal silencer - catalyst, with left exhaust outlet
- **EXD-REAR** Horizontal silencer - catalyst, with rear exhaust outlet
- EXD-VERL** Horizontal silencer - catalyst, with vertical exhaust outlet
- **R200P** 200 litre right hand plastic fuel tank  
Min volume 130l  
Max volume 300l
- **UL-FUEL** Without left fuel tank  
Min volume 130l  
Max volume 130l
- XTR200ST** Right extra fuel tank, 200 litre, steel
- **ADTR20** 20 litre plastic AdBlue tank on right hand side
- ADTR50** 50 litre plastic AdBlue tank on right hand side
- ADTL20** 20 litre plastic AdBlue tank on left hand side
- SWCP-LF** Spare wheel carrier on left side, in front of rear axle.
- SWCP-R** Spare wheel carrier rear mounted below frame.
- SWCP-RF** Spare wheel carrier in front of rear axle on right side.
- SWCP-T** Spare wheel supplied temporarily strapped to chassis
- SWCP-TP** Spare wheel carrier transport mounted on frame (spare wheel  
carrier not included)
- WHC-FIX1** One wheel chock
- WHC-FIX2** Two wheel chocks
- FRAHO-RO** Series of frame holes drilled in the last 1.6m of the rear  
overhang for taillift mounting
- C-RO40AG** Rockinger 400 G145
- TOWR-ONE** Pintle type towing hitch attached to rear crossmember for  
3.5tonne trailer
- RUP-FIS** Fixed EC approved steel C section rear underrun with  
integrated rear lights
- RFEND-T** Mudwings on drive axle for transportation only
- **TOWF-NO1** One towing device in front.
- TOWF-NO2** Two towing devices in front.

## WHEELS & TYRES

- SPWT-F** Spare wheel & tyre with front tyre pattern

## DRIVELINE EQUIPMENT

- RET-TPT** Retarder for automatic gearbox
- 1COMP225** Single cylinder, 225cc air compressor, 133 litres per minute  
@1000rpm
- **2COMP720** Two cylinder, 720cc air compressor, 420 litres per minute  
@1000rpm
- APUL1** Additional V-belt crankshaft pulley for additional  
compressor/alternator etc.
- APUL2** Additional poly-V belt crankshaft pulley for additional  
compressor/alternator etc.
- **AIRIN-HI** High air intake behind cab on right hand side
- ACL2ST** Air cleaner with extra filter element
- 24AL120B** 120 amp alternator
- **24ALT-XB** 100 amp alternator
- ELG-PK** Preparation kit for fridge alternator
- ENGENV1** Engine working environment -40° to +40°C
- **ENGENV2** Engine working environment -15° to +40°C

# MODEL RANGE

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- |  |  |
|--|--|
| <ul style="list-style-type: none"> <li><input type="checkbox"/> <b>ENGENV3</b> Engine working environment -25° to +40°C</li> <li><input checked="" type="checkbox"/> <b>COOLC40</b> Cooling capacity 40° C</li> <li><input type="checkbox"/> <b>COOLC48</b> Cooling capacity 48° C</li> <li><input type="checkbox"/> <b>AF-E</b> Auxiliary fuel filter, electrically heated</li> <li><input type="checkbox"/> <b>EST-AID</b> Air inlet manifold starting heater element</li> <li><input type="checkbox"/> <b>STHLP</b> Start help</li> <li><input type="checkbox"/> <b>ETC</b> Electronic throttle control - dash mounted switches that control PTO speed</li> <li><input type="checkbox"/> <b>220EBH08</b> Engine block heater, 220V/0.8kW</li> <li><input type="checkbox"/> <b>PTER-DIN</b> Rear engine mounted PTO with DIN5462 (female) splined shaft for a close coupled pump</li> <li><input type="checkbox"/> <b>PR-HF4S</b> Live-drive PTO for Allison gearbox output 400Nm for flange connection mounted on the side of the torque convertor</li> <li><input type="checkbox"/> <b>PR-HP4S</b> Live-drive PTO for Allison gearbox output 400Nm for hydraulic pump connection mounted on the side of the torque convertor</li> <li><input type="checkbox"/> <b>PTR-FH1</b> Rear PTO Gearbox S81 flange DIN connection</li> <li><input type="checkbox"/> <b>PTR-FH2</b> Rear PTO Gearbox S84 flange DIN connection</li> <li><input type="checkbox"/> <b>PTR-FH5</b> Rear PTO Gearbox S88 flange DIN connection</li> <li><input type="checkbox"/> <b>PTR-PH1</b> Rear PTO Gearbox S81 pump DIN connection</li> <li><input type="checkbox"/> <b>PTR-PH2</b> Rear PTO Gearbox S84 pump DIN connection</li> <li><input type="checkbox"/> <b>PTR-PH4</b> Rear PTO Gearbox S88 pump DIN connection</li> <li><input type="checkbox"/> <b>PTR-PK</b> Electrical and solenoid prep kit for gearbox PTO</li> <li><input type="checkbox"/> <b>PTR-ZF2</b> Rear Power Take Off flange DIN connection</li> <li><input type="checkbox"/> <b>PTR-ZF4</b> Rear PTO Gearbox 320Nm flange connection</li> <li><input type="checkbox"/> <b>PTR-ZF5</b> Rear PTO Gearbox 320Nm pump connection</li> <li><input type="checkbox"/> <b>PTRA-PH2</b> Add PTO for 9sp box twin S84 pump conn</li> <li><input type="checkbox"/> <b>HPG-F101</b> Gearbox mounted hydraulic pump F1-101, fixed displacement, single flow.</li> <li><input type="checkbox"/> <b>HPG-F41</b> Gearbox mounted hydraulic pump F1-41, fixed displacement, single flow.</li> <li><input type="checkbox"/> <b>HPG-F51</b> Gearbox mounted hydraulic pump F1-51, fixed displacement, single flow.</li> <li><input type="checkbox"/> <b>HPG-F61</b> Gearbox mounted hydraulic pump F1-61, fixed displacement, single flow.</li> <li><input type="checkbox"/> <b>HPG-F81</b> Gearbox mounted hydraulic pump F1-81, fixed displacement, single flow.</li> </ul> | <ul style="list-style-type: none"> <li><input type="checkbox"/> <b>ETS-FL</b> Engine tunnel storebox, adjustable on engine tunnel, features large drawer, bottle holder, pullout table and 12/24v electric sockets.</li> <li><input type="checkbox"/> <b>ETS-FLRH</b> Engine tunnel storebox, adjustable on engine tunnel, features large drawer, bottle holder, lifting top, pullout table and 12/24v electric sockets.</li> <li><input type="checkbox"/> <b>ETS-FMR</b> Engine tunnel storebox, fixed, features two large boxes, rear one with lift of lid, front one with folding flap too form table, front oddments tray and 24v electric socket.</li> <li><input type="checkbox"/> <b>BUNKBOX</b> Removable open storage bin behind seats</li> <li><input checked="" type="checkbox"/> <b>FOHS-BAS</b> Front overhead open storage lockers with nets</li> <li><input type="checkbox"/> <b>FOHS-COV</b> Front overhead storage lockers with doors</li> <li><input type="checkbox"/> <b>RWCLOH-H</b> Clothes rail on rear wall</li> <li><input checked="" type="checkbox"/> <b>CU-HEAT</b> Conventional heater unit.</li> <li><input type="checkbox"/> <b>CU-MCC</b> Manually operated air conditioning.</li> <li><input type="checkbox"/> <b>PH-CAB</b> 1.8kW Air to air night heater</li> <li><input type="checkbox"/> <b>RH1ELEG</b> Roof hatch - glass, electrically operated.</li> <li><input type="checkbox"/> <b>RH1ELEP</b> Roof hatch - electrically operated.</li> <li><input type="checkbox"/> <b>RH1MANP</b> Roof hatch - manually operated.</li> <li><input checked="" type="checkbox"/> <b>URHATCH</b> Roof hatch - not fitted.</li> <li><input type="checkbox"/> <b>WIND-HF</b> Heated windscreen</li> <li><input type="checkbox"/> <b>AWIND-RF</b> Rear window without curtains.</li> <li><input type="checkbox"/> <b>SWIND-PS</b> Side rear nearside passenger window</li> <li><input type="checkbox"/> <b>AWIND-DP</b> Lower kerb window on passenger door</li> <li><input type="checkbox"/> <b>WLIFT-EB</b> Electric windows both sides</li> <li><input checked="" type="checkbox"/> <b>WLIFT-ME</b> Mechanical window lift</li> <li><input type="checkbox"/> <b>LOCK-ALL</b> Central locking with remote control and remote electronic battery master switch.<br/>Note there is no manual master switch on the chassis</li> <li><input checked="" type="checkbox"/> <b>LOCK-MAN</b> Manual locking driver and passenger doors.</li> <li><input type="checkbox"/> <b>LOCK-REM</b> Central door locking with remote control.</li> <li><input type="checkbox"/> <b>IL-DOOR</b> White step light in lower door</li> <li><input checked="" type="checkbox"/> <b>HLA-EL</b> Electrically adjustable headlights</li> <li><input type="checkbox"/> <b>CURT-WIN</b> Front &amp; side window curtains only.<br/>Note these do not cover the lower door or rear window if specified.</li> <li><input type="checkbox"/> <b>CBM-RSH</b> Aerial connection for CB radio supplied in front overhead shelf</li> <li><input type="checkbox"/> <b>ACON-USB</b> Audio USB connector</li> <li><input type="checkbox"/> <b>XCON-AUD</b> 3.5mm audio mini jack socket</li> <li><input type="checkbox"/> <b>AIP-BT</b> Bluetooth phone capability</li> <li><input checked="" type="checkbox"/> <b>INST-BAS</b> Basic instruments &amp; concise driver's information display<br/>Includes - Speedometer, Rev counter, single air pressure &amp; fuel level gauges</li> <li><input type="checkbox"/> <b>INST-MED</b> Medium instruments &amp; driver's information display<br/>Includes - Speedometer &amp; Rev counter<br/>Gauges for fuel level, Oil pressure, Turbo boost, Coolant temperature &amp; individual front and rear air circuits</li> <li><input type="checkbox"/> <b>FMS</b> Fleet Management System gateway</li> <li><input type="checkbox"/> <b>DOL12S12</b> 12 volt dash single outlet</li> <li><input checked="" type="checkbox"/> <b>DOL24+12</b></li> <li><input type="checkbox"/> <b>APO24PK</b> Auxiliary power outlet, 24V in the overhead shelf</li> <li><input type="checkbox"/> <b>APNOUTC</b> Dashboard air connection - for auxiliary items, and inflation hose</li> <li><input type="checkbox"/> <b>IMMOAL</b> Immobiliser and cab alarm</li> <li><input type="checkbox"/> <b>IMMOUAL</b> Immobiliser</li> <li><input checked="" type="checkbox"/> <b>BUPALARM</b> Reverse alarm</li> <li><input type="checkbox"/> <b>REM-AUD</b> Remote control for audio system</li> <li><input type="checkbox"/> <b>FIRE2SWE</b> 2kg fire extinguisher located by the driver's seat next to the</li> </ul> |
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## CAB INTERIOR

- DST-CF5** Driver seat comfort air suspended, heated, with seatbelt built into the seat and adjustments for the following , backrest tilt, height, front tilt, length, adjustable shock absorber and rapid descent.
- DST-ECOA**
- DST-STD2**
- DST-STD8**
- PST-BAS1**
- PST-BLUX** Two man passenger bench seat with three point belt in cab and centre seat.  
Arm rest on centre seat next too driver.  
Fold down backrest on centre seat to form table.  
With lockable storage space under the seat
- PST-ECOA**
- PST-STD6**
- PST-STD7**
- ARMRE-PS** Single armrest on passenger seat next to the driver.
- BED1858** Occasional single piece foam bunk  
Bunk size - Thickness 13.5mm x Width 58cm x Length 180cm  
Smoke detector  
Front and side window curtains
- REST1878** Two piece fold up foam bunk  
Bunk size - Thickness 9mm x Width 78cm x Length 180cm  
Smoke detector  
Front and side window curtains
- UBED** Without bunk
- BEDBAR** Protective bar on the front edge of the bunk

Standard Equipment       Optional Equipment

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

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- door
- DETECT-S** Smoke detector in cab
- WARNVEST** High visibility warning vest - no sleeves
- WARNTRI1** One warning triangle
- WARNTRI2** Two warning triangles
- AIDKIT** First aid kit - Legal demand for EU markets including delivery to EU bodybuilder
- FLASHL-A** Portable flashing amber lamp
- TACHOP2** Continental VDO DTCO 2.0 digital tachograph for ADR applications can be modified for remote download
- TACHOP4** Continental VDO DTCO 2.0 digital tachograph - can be modified to allow remote download
- CRUISEC** Cruise control with switches in the steering wheel
- JACK-8T** 8 tonne bottle jack
- INFLAHOS** Tyre inflation hose
- GAUGE-TP** Tyre pressure gauge
- MAT-RUB** Rubber Mats
- WRITEPAD** Writing pad - clips on steering wheel when stationary
- STGW-ADJ** Mechanically adjustable steering wheel rake
- STGW-ADP** Pneumatically adjustable steering wheel for height and rake

## CAB EXTERIOR

- CABS-MEC** Rear cab suspension - coil spring
- MIRCOMF** Electrically heated and operated main mirrors with wide angle mirror on both sides and kerb mirror on the passenger side.
- MIRSTD** Electrically heated main mirrors with wide angle mirror on both sides and kerb mirror on the passenger side.
- CMIR-FF** Close view front mirror
- SUNV-URL** Exterior sunvisor
- AD-ROOF** Fixed cab roof air deflector - not adjustable
- AD-SIDES** Cab side air deflector, short extension panels.
- HL-CLEAN** Head lamp cleaner jet
- HL-ASYML** Head lamp asymmetric, right hand drive
- HL-ASYMR** Head lamp asymmetric, left hand drive
- LOWB-DAY** Day running light
- LOWB-STD** Standard low beam
- FOGL-WB** Fog lights located in the corner of the front bumper
- BEACON-P** Beacon preparation
- BEACONA2** Two amber beacons directly mounted to cab roof
- AHORN-D** Twin roof mounted air horns.
- ACCBP-PK** Accessory roof bracket - preparation kit
- ACCBRTKF** Accessory roof bracket - front

## SUPERSTRUCTURE PREPARATIONS

- CRANE-PK** Crane preparation kit - mounting plates for subframe behind cab  
Maximum crane capacity on FL L 16tonne/m and FL M 18tonne/m
- TRBRAKE1** Trailer brake valve
- BBP-CF** Body Builder preparation, wiring pass through in cab floor
- ELCE-CK** Electrical interface for Body Builder includes body builder module
- ELCE-PK1** Electrical preparation kit for Body Builder does not include bodybuilder module
- TAILPREP** Taillift preparation kit - cab switch and warning in driver display

## DELIVERY SERVICES

- LAMP-IN** Inspection lamp



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