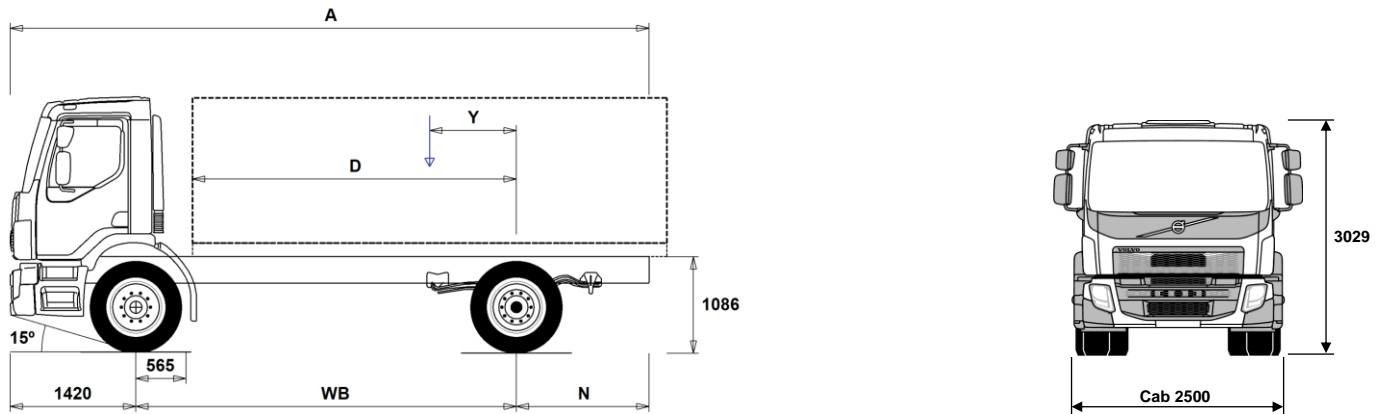


MODEL RANGE



Volvo Trucks. Driving Progress

FE818 4x2 Rigid 18 tonne - Steel Suspension FE 42 R L



Chassis Dimensions [mm]

WB Wheelbase	3495	3695	3895	4095	4295	4495	4745	4995	5245	5495	5795	6095	6445	6795
A Overall Chassis Length	6610	6910	7260	7560	7910	8210	8610	9010	9410	9760	10310	10760	11310	11560
D Center of rear axle to front of body	2856	3056	3256	3456	3656	3856	4106	4356	4606	4856	5156	5456	5806	6156
N Rear Overhang (Min.)	925	925	925	925	925	925	925	2595	2745	2845	3095	3245	3445	3345
N Rear Overhang (Max.)	1695	1795	1945	2045	2195	2295	2445	2595	2745	2845	3095	3245	3445	3345
Y Center of Gravity for Payload (Min.)	761	806	851	894	939	984	1040	1095	1151	1206	1271	1337	1415	1486
Y Center of Gravity for Payload (Max.)	929	983	1038	1092	1147	1201	1270	1338	1407	1474	1555	1637	1733	1821

Chassis Weights [kg]

Front Axle	3775	3775	3770	3785	3790	3790	3790	3795	3800	3805	3820	3825	3830	3845
Rear Axle	1710	1725	1745	1785	1805	1820	1840	1870	1890	1905	1960	1980	2005	2010
Kerb Weight	5485	5500	5515	5570	5595	5610	5630	5665	5690	5710	5780	5805	5835	5855
Payload (including body, driver, fuel, etc.)	12515	12500	12485	12430	12405	12390	12370	12335	12310	12290	12220	12195	12165	12145

Turning Diameter [mm]

Turning Circle Diameter Kerb to Kerb	12800	13400	14000	14700	15300	15900	16700	17400	18200	19000	19900	20800	21900	23000
Turning Circle Diameter Wall to Wall	14200	14800	15500	16100	16700	17300	18100	18900	19600	20400	21300	22200	23300	24400

Plated Weights [kg]

	Plated	Design
Gross Vehicle Weight	18000	18000
Gross Combination Weight	24000	24000
Front Axle	7100	7500
Rear Axle	11500	13000

Important Notes

Chassis Dimensions

Front Axle to Back of Cab: +375 mm for CAB-SLP, +204 mm for CAB-SSLP.
D-measure includes a front clearance of 74 mm and for rigid trucks also a subframe of 120 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, 0 litres fuel and without driver. Kerb weight can vary $\pm 3\%$.

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 FE42RL.

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TRUCK USE

- RC-ROUGH** Operating class on/off road
- RC-SMOOT** Operating class highway
- TIPP-PRE** Tipper vehicle preparation
- UNIFORM** Basic platform vehicle

CORE COMPONENTS

- CHH-HIGH** Chassis height high - N3 "On Road" chassis - For a specific loading height always check the unique BEP chassis drawing
- RAD-L90** 90mm 'S' parabolic rear springs
- EU6SCR** Emission level - Euro 6
- D8K250** D8K250 six cylinder 7.7 litre engine developing 250hp at 2100rpm.
Peak torque 950Nm at 900-1700rpm.
- D8K280** D8K280 six cylinder 7.7 litre engine developing 280hp at 2100rpm.
Peak torque 1050Nm at 950-1700rpm.
- D8K320** D8K320 six cylinder 7.7 litre engine developing 320hp at 2100rpm.
Peak torque 1200Nm at 1050-1600rpm.
- D8K350** D8K350 six cylinder 7.7 litre engine developing 350hp at 2100rpm.
Peak torque 1400Nm at 1200-1600rpm.
- EBR-CEB** Exhaust brake producing 170kW at 2800rpm controlled by steering column switch
- EBR-EPG** Exhaust brake producing 120kW at 2800rpm controlled by steering column switch
- AL306** Allison AL306 6-speed automatic gearbox
(If a PTO is required it must specified from the factory)
- AT2412F** AT2412F 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
- ZTO1006** 6-speed overdrive gearbox
- ZTO1109** 9-speed range change overdrive gearbox
- RSS1344C** RS1344C single reduction rear axle - design GCW 44tonne with differential lock
- RSS1344D** RS1344C single reduction rear axle - design GCW 44tonne with differential lock
- RSS1344E** RSS1344E single reduction rear axle with differential lock - design GCW 44tonne

Packages

- DRIVEFE** NEW drive package FE
- VISIFE** NEW visibility package FE
- AIRFLOW** NEW airflow package
- FUELFE** NEW Fuel package FE
- AUDIOBAS** AM/FM Radio with Bluetooth and optional DAB signal - without CD player
- AUDIODAB**
- AUDIOPK** Audio preparation

CHASSIS

- FST-PAR** Parabolic front springs
- FAL7.1** Front axle design capacity 7.1 tonnes
- FAL7.5** Front axle design capacity 7.5 tonnes
- FAL8.0** Front axle design capacity 8.0 tonnes - Ensure that you have checked the tyre load index
- FAL9.0** Front axle design capacity 9.0 tonnes - Ensure that you have checked the tyre load index
- RAL13** Rear axle design capacity 13 tonnes
- RSTAB1** Rear anti-roll bar
- EBS-MED** EBS+ package including traction control & hill hold
- EBS-STD** EBS standard package without traction control
- RST-PAR1** Parabolic rear 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.

- RST-PAR4** Short parabolic rear springs
- ABS** Anti lock brakes
- FRAME300** Frame rail section external height 300 mm
- FST7070** Frame thickness 7mm
- FST8080** Frame thickness 8mm
- 2BATT170** 2 x 170 Ah capacity batteries on left hand side
- 2BATT225** 2 x 225 Ah capacity batteries on left hand side
- ADR2** ADR package for transportation of dangerous goods on road (Note does NOT include safe loading pass package if required this is quoted seperately)
- R255A56** 255 litre right hand aluminium 560 mm D-shaped fuel tank
Min volume 160l
Max volume 630l
- UL-FUEL** Without left fuel tank
Min volume 160l
Max volume 315l
- ADTP-L** AdBlue tank on left hand side
- ADTP-R** AdBlue tank on right hand side
- WHC-FIX1** One wheel chock
- WHC-FIX2** Two wheel chocks
- TB-L33** Toolbox 330 x 330 mm on the left side
- TB-L75** Toolbox 754 mm on the left side
- TOWMBRH** Towing member, high position, mounted in centre of frame
- RFEC-S** Rear frame end, straight cut for platform applications
- C-RI4040** Towing coupling, Ringfeder 4040 G-150
- C-RI5055** Towing coupling, Ringfeder 5055 G-150
- C-RO400G** Towing coupling, Rockinger 400 G-150 for 40mm eyes
- C-RO40AG** Towing coupling, Rockinger 400 G-145
- C-RO430G** Towing coupling, Rockinger 430 G-150
- C-RO43AG** Towing coupling, Rockinger 430 G-145
- C-RO50** Rockinger RO 50 50mm for centre axle trailer
- TOWR-ONE** Towing hitch attached to rear crossmember
- TBC-EC** Palm coupling type air line connectors
- TRBR-STA** Stationary trailer brake control
- RUP-FIX2** Fixed rear EC approved aluminium underrun
- RFEND-T** Mudwings on drive axle for transportation only
- RFH-103** Quarter rear wing
- RFH-BAS** Basic rear wing height
- RFH-HIG** High rear wing height - higher wing tops
- RFH-LOW** Lower rear wing height - shallower wing tops
- ATANK-AL** Aluminium air tanks
- ATANK-ST** Steel air tanks
- FRACLOS** With frame closing

WHEELS & TYRES

- RT-AL** Alcoa brushed aluminium rims with standard holes for long stud fixing on all axles
- RT-ALDP** Alcoa Dura-Bright aluminium rims with standard holes long stud fixing on all axles, requires cleaning with a ph neutral solution - washing up liquid.
- RT-ALP** Polished aluminium rims with standard holes (long stud fixing) on all axles
- RT-STEEL** Steel rims on all axles
- SPWT-F** Spare wheel & tyre with front tyre pattern
- SWCP-R** Spare wheel carrier rear mounted below frame.
- SWCP-T** Spare wheel supplied temporarily strapped to chassis
- SWCP-TP** Spare wheel transport mounted on frame, (spare wheel carrier not included)

DRIVELINE EQUIPMENT

- TP-BAS** I-shift software - basic
- TP-DICON** I-shift software - Distribution and Construction

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- **TP-FUEC** I-shift software - Fuel & economy
 - **APF-ENH** I-shift enhanced PTO functions
 - **APF-ENH2** I-shift enhanced PTO functions on service brake
 - **CS39A-O** Single plate 395mm (16") clutch
 - **CS43B-O** Single plate 430mm (17") clutch
 - **RET-TPT** Retarder for automatic gearbox
 - **TC-HWO** Automatic gearbox oil cooler - water to oil
 - **TC-MWO** Basic transmission oil cooler - water to oil
 - **AIRIN-HI** High air intake behind cab on left hand side
 - **AIRIN-RL** Chassis mounted mounted behind cab on right hand side
 - **ACL1ST-S** Air filter with secondary filter element
 - **24AL110B** 110 amp alternator
 - **CCV-C** Closed crankcase ventilation
 - **CCV-OX** Open crankcase ventilation with oil separator and a maintenance free gas centrifuge
 - **AF-E** Auxiliary fuel filter, electrically heated
 - **EST-AID** Engine start preheating element
 - **220EBH08** Engine block heater, 220V/0.8kW
 - **PTER-100** Rear engine mounted power-take-off with DIN 7476 flange
 - **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
 - **PR-HP4T** Live-drive PTO for Allison gearbox output 400Nm for hydraulic pump connection mounted on top of the torque convertor
 - **PR-HP4TL** Live-drive low speed PTO for Allison gearbox output 400Nm for hydraulic pump connection mounted on top of the torque convertor
 - **PR-HP6TH** Live-drive high speed PTO for Allison gearbox output 600Nm for hydraulic pump connection mounted on top of the torque convertor
 - **PR-HP6TL** Live-drive low speed PTO for Allison gearbox output 600Nm for hydraulic pump connection mounted on top of the torque convertor
 - **PTR-FH1** Rear PTO Gearbox S81 flange DIN connection
 - **PTR-FH2** Rear PTO Gearbox S84 flange DIN connection
 - **PTR-FH5** Rear PTO Gearbox S88 flange DIN connection
 - **PTR-PH1** Rear PTO Gearbox S81 pump DIN connection
 - **PTR-PH2** Rear PTO Gearbox S84 pump DIN connection
 - **PTR-PH4** Rear PTO Gearbox S88 pump DIN connection
 - **PTR-PK** Electrical and solenoid prep kit for gearbox PTO
 - **PTR-ZF2** Rear Power Take Off flange DIN connection
 - **PTR-ZF4** Rear PTO Gearbox 320Nm flange connection
 - **PTR-ZF5** Rear PTO Gearbox 320Nm pump connection
 - **PTRD-D1D** PTO for I shift with twin outputs - flange (550 Nm) and pump connection (1000 Nm)
 - **PTRA-PH1** Add PTO for 9sp box twin S81 pump conn
 - **PTRA-PH2** Add PTO for 9sp box twin S84 pump conn
 - **HPG-F101** Gearbox mounted hydraulic pump F1-101, fixed displacement, single flow.
 - **HPG-F41** Gearbox mounted hydraulic pump F1-41, fixed displacement, single flow.
 - **HPG-F51** Gearbox mounted hydraulic pump F1-51, fixed displacement, single flow.
 - **HPG-F61** Gearbox mounted hydraulic pump F1-61, fixed displacement, single flow.
 - **HPG-F81** Gearbox mounted hydraulic pump F1-81, fixed displacement, single flow.
 - **ETC** Electronic throttle control - dash mounted switch for PTO speed control
 - **FLAMEPR** Flame protection in the exhaust system
- ### CAB INTERIOR
- **STWPOS-L** LEFT HAND DRIVE
 - **STWPOS-R** RIGHT HAND DRIVE
 - **TAS-DIG** Continental VDO 3.0 digital tachograph
 - **IMMOBIL** Immobiliser
 - **WARNLAMP** Portable warning lamp
 - **ALARM-B** Vehicle alarm - cab only
 - **WARNVEST** High visibility warning vest - no sleeves
 - **AIDKIT** First aid kit - Legal demand for EU markets including delivery to EU bodybuilder
 - **AIDKIT1B**
 - **CRUIS-E2** Cruise control for I shift Eco Roll
 - **CRUISEC** Cruise control with switches in the steering wheel
- ### CAB EXTERIOR
- **AUXFS** Extra foot step on both sides
 - **CF-AFS** Foldable extra front cab foot-step
 - **RCABS-A** Rear cab suspension - Air
 - **RCABS-M** Rear cab suspension - Mechanical spring
 - **AD-ROOF** Fixed cab roof air deflector - not adjustable
 - **AD-ROOFA** Adjustable roof deflector with 12 positions
 - **AD-SIDES** Cab side air deflector, short extension panels.
 - **HL-CLEAN** Head lamp cleaner jet
 - **HL-ADJ** Adjustable headlights with switch in the cab
 - **DRL-LED** V-shaped day time running lights
 - **BEACON-P** Beacon preparation
 - **BEACONA2** Two amber beacons directly mounted to cab roof
 - **HORN-F1S** Single tone air horn chassis mounted
 - **HORN-R2S** Two roof mounted air horns
- ### SUPERSTRUCTURE PREPARATIONS
- **FBA-BTF** Lower front body attachments for torsionally flexible - platform body
 - **FBA-BTS** Pre-punched front body attachment holes for torsionally stiff body - tanker
 - **FBA-BTSF** Lower front body attachments for torsionally semi-flexible body - box or curtainsider
 - **RBA-T1** Rear body attachments, plates
 - **RBA-T2** Rear body attachments, divided
 - **HBA-FSFB** Holes for body attachments - flexible/semi-flexible body
 - **HBA-SB** Holes for body attachments - stiff body
 - **TAILPREP** Taillift preparation kit - cab switch and warning in driver display
- ### DELIVERY SERVICES
- **VWTA** Whole Vehicle Type Approved - MANDATORY for standard truck

VOLVO

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